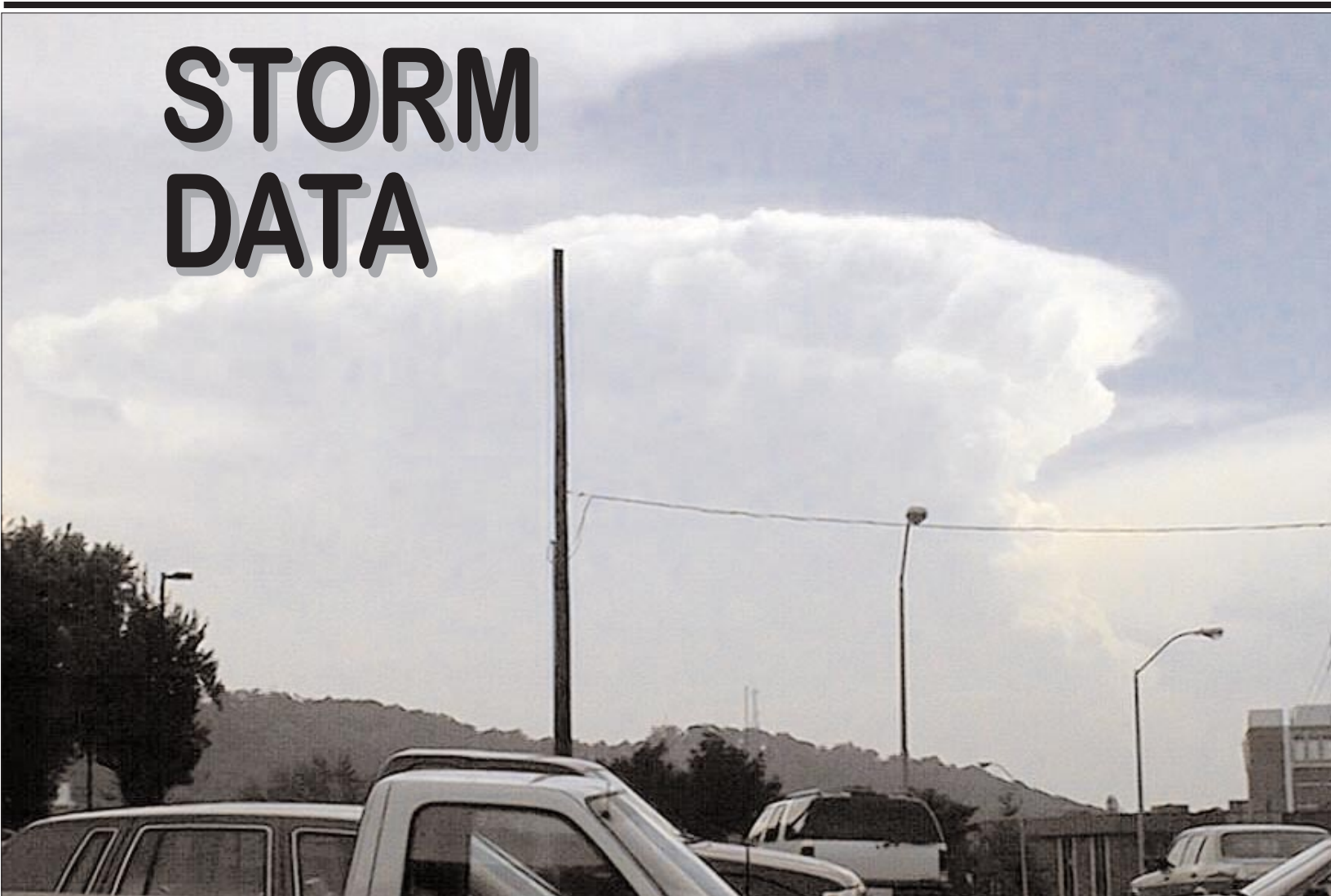


**FEBRUARY 1999
VOLUME 41
NUMBER 2**

STORM DATA



**AND UNUSUAL WEATHER PHENOMENA
WITH LATE REPORTS AND CORRECTIONS**



noaa NATIONAL OCEANIC AND
ATMOSPHERIC ADMINISTRATION

NATIONAL ENVIRONMENTAL SATELLITE
DATA, AND INFORMATION SERVICE

NATIONAL CLIMATIC DATA CENTER
ASHEVILLE, N.C.

Cover: A Cumulonimbus cloud just southeast of Asheville, NC. This storm produced heavy rainfall amounts and strong straight-line winds in the Fairview area. (Photograph courtesy of Stuart Hinson, Meteorologist, NCDC, Asheville, NC)

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STORM DATA

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National Climatic Data Center

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The Storm Data and Unusual Weather Phenomena narratives and Hurricane/Tropical Storm summaries are prepared by the National Weather Service. Monthly and annual statistics and summaries of tornado and lightning events resulting in deaths, injuries, and damage are compiled by cooperative efforts between the National Climatic Data Center and the Storm Prediction Center.

STORM DATA contains all confirmed information on storms available to our staff at the time of publication. However, due to difficulties inherent in the collection of this type of data, it is not all-inclusive. Late reports and corrections are printed in each edition.

Maps of the National Weather Service County Warning Areas which are used in the Storm Data and Unusual Weather Phenomena section will be printed in all editions.

Except for limited editing to correct grammatical errors, materials submitted are generally published as received.

Note: "None Reported" means that no severe weather occurred and "Not Received" means that no reports were received for this region at the time of printing.

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151 Patton Avenue
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The editors of **STORM DATA** solicits your help in acquiring photographs (prints or slides; black and white, or color), maps, clippings, etc. of significant or unusual weather events (past or present). These could be for use in the "Outstanding Storms of the Month" section of **STORM DATA**. We request our subscribers or other interested persons to mail such items to:

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Asheville, NC 28801

Any such items received by the editor will be for use in **STORM DATA** only. Any other use will be with the permission of the owner of said items. Materials submitted will be returned if requested in the original submission.

"I certify that this is an official publication of the National Oceanic and Atmospheric Administration and is compiled from information received at the National Climatic Data Center Asheville, North Carolina 28801-2733."

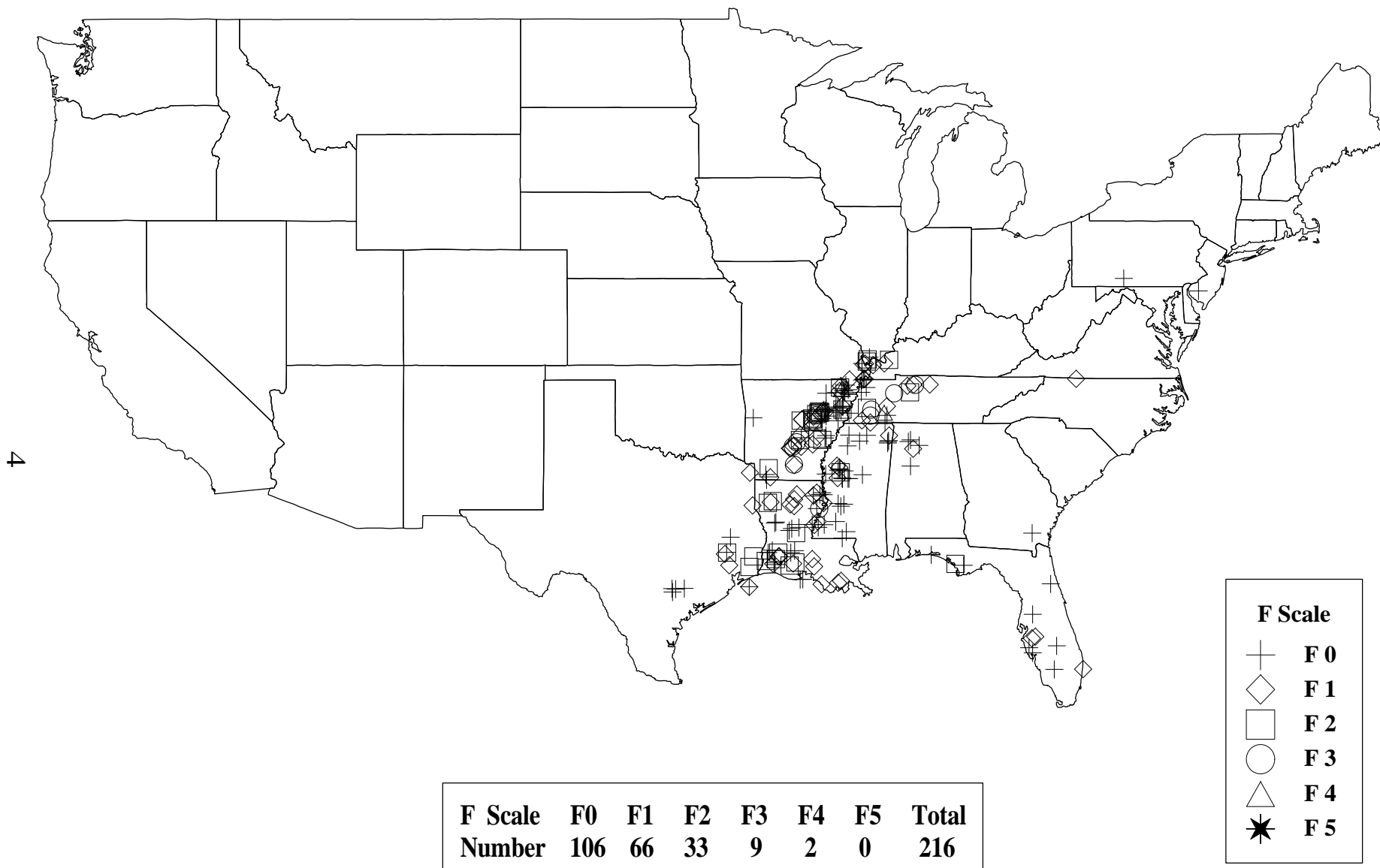


Thomas R. Karl
Director,
National Climatic Data Center

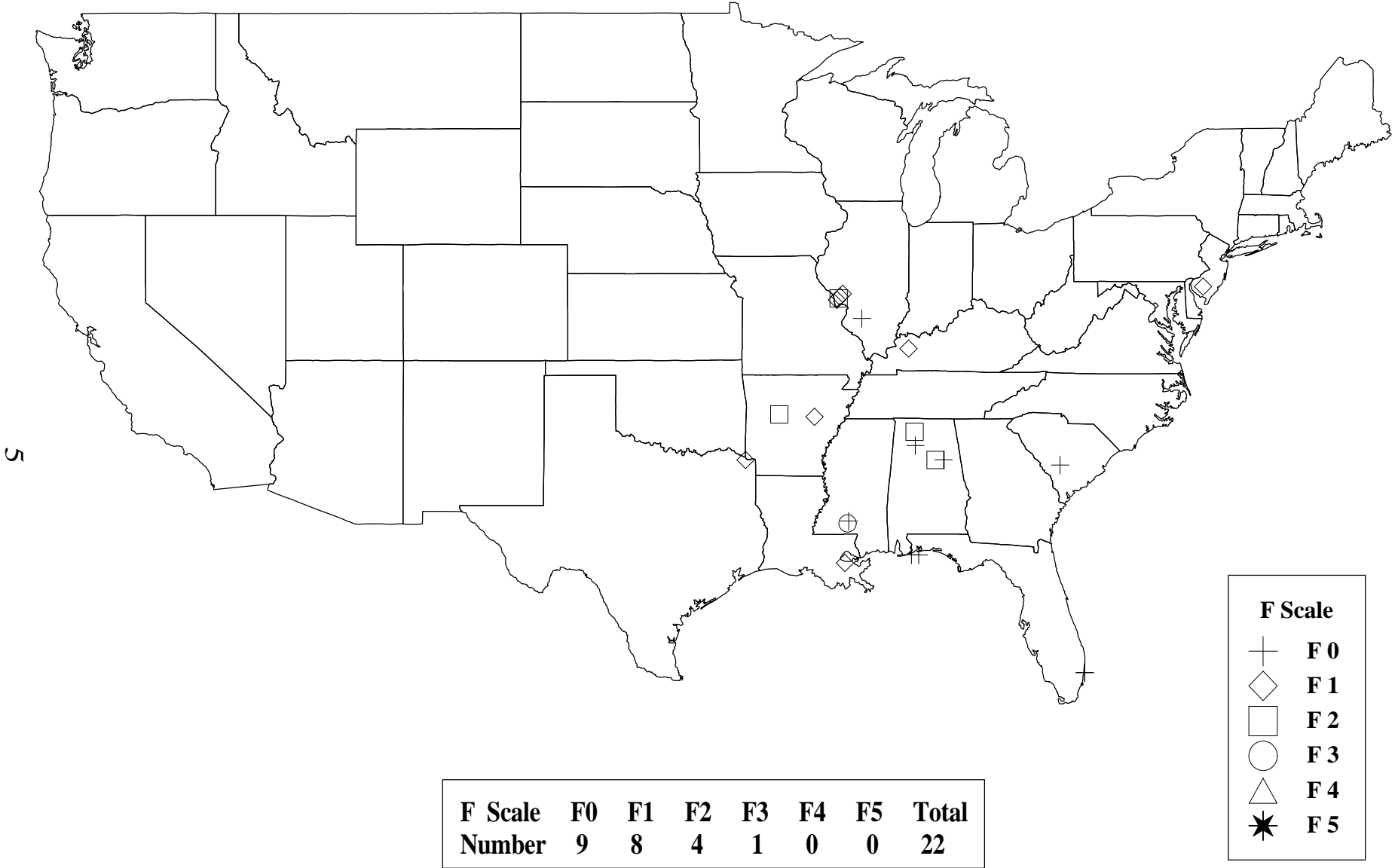
The Cyclone Track Map which usually appears on this page is not available for February 1999.

Should the data become available in the future, a cyclone track map will be produced and printed in a subsequent issue.

January 1999 Confirmed Tornadoes



February 1999 Confirmed Tornadoes



OUTSTANDING STORMS OF THE MONTH

The “Outstanding Storm of the Month” which appears on Page 5 is not available for this month.

The Editors of the **Storm Data** Publication solicit your help acquiring materials such as photographs, newspaper articles, graphs, charts, maps, etc. of severe weather events or any unusual weather phenomena. Any such items received by the editors may be for use in the “Outstanding Storm of the Month” section. Materials will be returned if requested in the original submission. Please send any such materials to the address below. If you have any questions, comments or suggestions, please feel free to contact us at the address below.

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Storm Data and Unusual Weather Phenomena

February 1999

February 1999									
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Killed	Injured	Estimated Damage	Crops	Character of Storm
ALABAMA, North Central									
ALZ044	Montgomery								
	01	0000CST			0	0	0	0	Drought
	28	2359CST							
	The monthly rainfall for February was 1.11 inches. That is the lowest monthly total for February ever recorded.								
ALZ006	Madison								
	06	1500CST			0	0	0	0	Excessive Heat
	A new record high temperature of 69 degrees was recorded at the Huntsville International Airport.								
ALZ024	Jefferson								
	06	1500CST			0	0	0	0	Excessive Heat
	A new record high temperature of 76 degrees was recorded at the Birmingham International Airport.								
ALZ006	Madison								
	07	1500CST			0	0	0	0	Excessive Heat
	A new record high temperature of 73 degrees was recorded at the Huntsville International Airport.								
ALZ024	Jefferson								
	07	1500CST			0	0	0	0	Excessive Heat
	The record high temperature of 76 degrees was tied at the Birmingham International Airport.								
Tuscaloosa County									
Tuscaloosa	09	1506CST			0	0	0	0	Hail (0.88)
	Nickel sized hail was reported in the city of Tuscaloosa.								
Etowah County									
Gadsden	09	1900CST 2000CST			0	0	20K	0	Flash Flood
	Localized rainfall amounts of three inches across the city of Gadsden in a short period of time produced some flooding. Several cars were inundated and a few residences had water in them.								
Marshall County									
Guntersville	09	1930CST			0	0	12K	0	Lightning
	Lightning struck a transformer and entered the Classic Car Wash. The lightning damaged heavy machinery and all the computer systems and electrical appliances. No injuries were reported.								
ALZ006	Madison								
	11	1500CST			0	0	0	0	Excessive Heat
	A new record high temperature of 75 degrees was recorded at the Huntsville International Airport.								
ALZ024	Jefferson								
	11	1500CST			0	0	0	0	Excessive Heat
	The record high temperature of 79 degrees was tied at the Birmingham International Airport.								
ALZ044	Montgomery								
	11	1500CST			0	0	0	0	Excessive Heat
	A new record high temperature of 82 degrees was recorded at Dannelly Field.								
Franklin County									
Red Bay	27	1740CST 1745CST			0	0	10K	0	Thunderstorm Wind (G55)
	Trees were downed near Red Bay High School. One building was damaged in the city of Red Bay. Trees were downed and blocked SR 24 east of Red Bay.								
Lamar County									
Sulligent	27	1745CST			0	0	5K	0	Thunderstorm Wind (G50)
	Trees were downed in Sulligent.								
Lauderdale County									
4 NE Killen to 5.7 NE Killen	27	1755CST 1758CST	1.7	150	0	0	145K	0	Tornado (F2)
	A tornado occurred around 5:55 pm about 4 miles northeast of Killen in northern Lauderdale County. A mobile home was destroyed, several houses were heavily damaged, numerous trees were downed and uprooted, and several other structures sustained damage. The damage area was along CR 71 in the Antioch area.								
Lauderdale County									
5.3 SW Lexington to Anderson	27	1759CST 1820CST			0	0	85K	0	Thunderstorm Wind (G60)

Storm Data and Unusual Weather Phenomena

February 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
ALABAMA, North Central									
Additional damage occurred in Lauderdale County from about 5 miles southwest of Lexington eastward to Anderson. Strong straight line wind downed several trees and caused minor roof damage to several structures. EMA reported damage to 10 to 12 houses in the Anderson area as well as the area south of Lexington. Shingles were disturbed on a number of houses. Several trees blocked highways including CR 52 and 50. Trees reportedly fell on two vehicles in the Anderson area.									
Fayette County									
16 NE Fayette	27	1810CST			0	0	5K	0	Thunderstorm Wind (G55)
Several trees were downed near Studdards Crossroads.									
Winston County									
4 NW Double Spgs	27	1823CST 1830CST			0	0	25K	0	Thunderstorm Wind (G60)
Strong straight line wind damaged a house when about 100 square feet of roof was removed. Additional structural damage was evidenced in the house as well. A number of trees were downed in the area and a mobile home was shifted slightly on it's blocks. Some additional minor wind damage to trees and small sheds also occurred in the area north of Double Springs.									
Winston County									
3.5 SSW Double Spgs	27	1825CST 1826CST	0.5	30	0	0	12K	0	Tornado (F0)
Around 6:25 pm a weak tornado touched down about 3.5 miles south-southwest of Double Springs just west of State Road 195. A tree fell on a garage/workshop, numerous trees were downed, a storage shed was destroyed, and a mobile home suffered roof damage.									
Greene County									
12 N Eutaw	27	1825CST			0	0	5K	0	Thunderstorm Wind (G55)
Several trees and power lines were reported down between Mantua and South Union in northeast Greene County.									
Walker County									
Gorgas	27	1840CST			0	0	0	0	Hail (0.75)
Dime sized hail was reported in Gorgas.									
Hale County									
13 N Greensboro	27	1845CST			0	0	5K	0	Thunderstorm Wind (G55)
Numerous trees were reported down in the northwest part of Hale County near Havana.									
Walker County									
Jasper	27	1855CST			0	0	5K	0	Thunderstorm Wind (G50)
Trees were reported down near Jasper.									
Jefferson County									
Graysville	27	1900CST			0	5	8K	0	Thunderstorm Wind (G50)
Strong straight line wind downed several trees in the Graysville area including one pine tree that fell on a house on 10th Avenue Southwest. Five people including two children and three adults sustained injury when the tree came through the roof around 7:00 pm.									
Tuscaloosa County									
Tuscaloosa	27	1910CST			0	0	5K	0	Thunderstorm Wind (G55)
Several trees were reported downed in the city of Tuscaloosa.									
Blount County									
2 SW Nector to 1.6 SW Nector	27	1915CST 1917CST	0.4	50	0	1	85K	2K	Tornado (F2)
A brief tornado occurred about 3.5 miles northwest of Locust Fork around 7:15 pm. The tornado crossed County Road 13 moving in a northerly direction. Two large metal barns were demolished, a sturdy brick home lost a portion of its roof, and a small wood frame house was completely deroofed. One minor injury occurred in the wood frame house. Several large hay bales were strewn across CR 13 and two vehicles were nearly blown off the road. Numerous trees in the area were uprooted or snapped off.									
Blount County									
2.5 W Locust Fork to .9 SSE Nector	27	1916CST 1927CST			0	0	120K	5K	Thunderstorm Wind (G60)
Thunderstorm wind left a swathe of damage stretching for a four-mile long area from west of Locust Fork to just south-southeast of Nectar. Major damage was done to two houses and one mobile home. Minor damage occurred to four houses, several barns and one mobile home. Four mobile homes were completely destroyed.									
Bibb County									
6.8 SW Brent to 5.9 SW Brent	27	1915CST 1918CST			0	0	45K	0	Thunderstorm Wind (G60)

Storm Data and Unusual Weather Phenomena

February 1999

February 1999									
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
ALABAMA, North Central									
			Damaging wind with a thunderstorm downed a number of trees and powerlines on SR 5 in an area about 6 miles southwest of Brent. A couple of mobile homes were damaged and one house sustained roof damage when a tree fell on it.						
St. Clair County									
Branchville	27	1926CST			0	0	5K	0	Thunderstorm Wind (G55)
			Several trees and power lines were blown down.						
St. Clair County									
3 N Whitney	27	1929CST			0	0	5K	0	Thunderstorm Wind (G55)
			Wind damage was reported on Chandler Mountain. Minor damage occurred to the roof of a home, a storage building, and fencing around the home.						
Chilton County									
Thorsby	27	1938CST			0	0	5K	0	Thunderstorm Wind (G55)
			One barn had its roof blown off in Thorsby.						
St. Clair County									
6 ESE Ashville to 9 E Ashville	27	1938CST 1943CST			0	0	240K	0	Thunderstorm Wind (G60)
			Significant straight line wind damage occurred in NE St. Clair County. The damage length was 3 miles and the average damage width was 1/4 mile. The damage paralleled CR 24 starting near Licksillet Road and ended in the Lakeview Canyon Road area. The Oldham Chapel Church fellowship hall was destroyed. One house had its roof blown off and an adjacent garage was pushed off its foundation. Several mobile homes were damaged and one was destroyed. Hundreds of trees were either uprooted or snapped off and power lines were blown down.						
Etowah County									
Gallant to Hokes Bluff	27	1938CST 2009CST			0	1	800K	0	Thunderstorm Wind (G60)
			Numerous trees and power lines were knocked down or uprooted in southern Etowah County sporadically along this path. Many trees blocked roadways. 10 single family homes were totally destroyed. 20 homes sustained major damage. Minor damage was reported to another 29 homes. Two mobile homes were demolished and four additional mobile homes received minor damage. One man in North Gadsden was injured when his home crumbled. He had several bruises and a concussion. In Walnut Park, one woman died, apparently of natural causes, but it occurred in the middle of the storm. Stowers Manufacturing Plant in Gadsden had a large portion of its roof torn off. The damage was heavily concentrated in Gadsden and Walnut Park.						
Etowah County									
5.3 SW Southside to 4.5 SSW Southside	27	1951CST 1953CST	1.3	50	0	0	25K	0	Tornado (F0)
			A weak tornado touched down just inside the Etowah County line near Southside. The tornado caused some minor damage to a house and knocked a few trees down on Babe Jackson Road then crossed H. Neely Henry Lake on the Coosa River. On the eastern bank of the lake, the roof was torn off one mobile home and minor damage occurred to several other homes and outbuildings. Several trees were uprooted in the area.						
Etowah County									
Southside	27	1956CST			0	0	15K	0	Thunderstorm Wind (G55)
			The roof of one home was blown off. Additionally, several trees were knocked down on Pilgrims Rest Road off CR 45.						
Shelby County									
Vincent	27	1942CST			0	0	0	0	Hail (0.75)
			Dime sized hail was reported near Vincent in northeastern Shelby County.						
Marshall County									
Boaz	27	1945CST			0	0	0	0	Hail (0.88)
Marshall County									
Boaz	27	1945CST			0	0	0	0	Thunderstorm Wind (G50)
			Nickel sized hail was reported along with a few tree limbs down near Boaz.						
Calhoun County									
Ohatchee to Alexandria	27	1950CST 2001CST			0	0	18K	0	Thunderstorm Wind (G55)
			Several trees were down from Ohatchee to Alexandria in eastern Calhoun County. One mobile home had its roof torn off in Alexandria.						
Shelby County									
Countywide	27	1955CST 2010CST			0	0	0	0	Hail (0.75)
			Dime sized hail throughout Shelby County.						

Storm Data and Unusual Weather Phenomena

February 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>ALABAMA, North Central</u>									
Etowah County									
Gadsden	27	2006CST			0	0	0	0	Thunderstorm Wind (G62)
Wind gusts recorded at the Gadsden EMA office reached 72 miles an hour.									
Dekalb County									
5 SE Crossville	27	2007CST			0	0	15K	0	Thunderstorm Wind (G55)
One trailer was damaged and trees were reported down near Hendrixville, between CR 51 and SR 227.									
Coosa County									
Countywide	27	2010CST 2030CST			0	0	8K	0	Thunderstorm Wind (G55)
Several trees were downed throughout the entire county.									
Cherokee County									
7.5 SSW Centre	27	2019CST			0	0	20K	0	Thunderstorm Wind (G55)
Numerous trees reported down around the Davis Chapel Church near CR 19. In the Mt. Weisner Community on CR 39, two mobile homes were totally destroyed and six other homes sustained minor damage. Numerous barns and outbuildings were demolished, and numerous trees and power lines were blown to the ground.									
Cherokee County									
2 N Forney	27	2038CST			0	0	5K	0	Thunderstorm Wind (G55)
Numerous trees and power lines knocked down in the McCord Crossroads area. Several outbuildings sustained minor damage and a few mobile homes lost their front porches.									
Dekalb County									
Geraldine	27	2025CST			0	0	15K	0	Thunderstorm Wind (G60)
One trailer was damaged and trees were downed on CR 39.									
Elmore County									
Millbrook	27	2028CST			0	0	15K	0	Thunderstorm Wind (G55)
A few trees were downed including one that fell on the police chief's truck.									
Cleburne County									
Hopewell	27	2034CST			0	0	5K	0	Thunderstorm Wind (G55)
The Old Hopewell Church had its steeple blown off and had minor roof damage. A few trees were also reported down in the area.									
Clay County									
Millerville	27	2035CST			0	0	5K	0	Thunderstorm Wind (G55)
Trees and power lines down near the intersection of SR 9 and SR 48 near Millerville.									
Tallapoosa County									
Newsite	27	2100CST			0	0	0	0	Thunderstorm Wind (G55)
One mobile home was destroyed and trees were downed in the city of New Site.									
Tallapoosa County									
Dadeville	27	2107CST			0	0	0	0	Thunderstorm Wind (G52)
Wind gusts estimated at 60 miles an hour were reported in Dadeville.									
Chambers County									
5 S Lafayette	27	2140CST			0	0	5K	0	Thunderstorm Wind (G50)
Trees were downed along US 431 in Chambers County.									
Lee County									
4 SE Opelika	27	2145CST			0	0	0	0	Hail (0.75)
Dime sized hail was reported near Opelika.									

ALABAMA, Southeast

NONE REPORTED.

ALABAMA, Southwest

Baldwin County

Summerdale to 2 E Summerdale	23	1745CST 1752CST	2	30	0	0	10K		Tornado (F0)
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Storm Data and Unusual Weather Phenomena

February 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

ALABAMA, Southwest

An F0 tornado briefly touched down around Alabama 59 near Summerdale in a trailer park. Several trailers had minor damage to skirting and one was shifted off its blocks. One tree had a branch blown off and an abandoned trailer on blocks was turned over. The tornado then moved east and skipped along the ground briefly touching down along County Road 38 where small trees and a fence were blown down. A Weather Service employee followed the storm east and said the funnel was rotating but it never appeared to touch down. The tornado then went back into the cloud before reaching Seminole.

Choctaw County

Melvin

27	1920CST 1922CST	0	0	5K	Thunderstorm Wind (G50)
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Trees were blown down in the Melvin community.

Covington County

Andalusia

27	2250CST 2251CST	0	0	5K	Thunderstorm Wind (G50)
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High winds blew down a few trees in the south part of Andalusia. A barn and a vehicle were also damaged along Highway 55 in the south part of the city. Wind speeds in the area were measured at 52 mph.

ALASKA, Northern

AKZ002>003-007-010

North Slopes Of Brooks Range - Lower Kobuk Valley-Northern Seward Peninsula - Tanana Valley - Yukon Delta

01	0000AST	0	0	Extreme Windchill
02	1500AST			

Continuation of event from January.

Zone 2: Anaktuvuk Pass -96

Zone 3: Point Hope -96, Kivalina -94, Shishmaref -92, Deering -95, Buckland -89

Zone 7: Trimms D.O.T. Camp -95 (based on estimated sustained wind speed), Northway -74

Zone 10: Cape Romanzof -87; Hooper Bay -75

AKZ004>005-007>008

Koyukuk-Upper Kobuk Valleys - Upper Yukon Valley - Tanana Valley - Lower Yukon Valley

01	0000AST	0	0	Extreme Cold
12	1200AST			

Continuation of event from January...

While northern Alaska was under a relatively cold airmass already, a large pool of colder air moved from the Russian high Arctic Ocean to the Chukchi Sea coast west of Barrow on Jan. 29th and proceeded southeast to the interior of Alaska through the 31st, where it remained until being slowly warmed February 10-12th. Many locations over Zones 4 and 8 (Western Interior) and western zones 5 and 7 (Central Interior) remained in the 50s below during the period and reached the 60s below one or more times.

Zone 4: Bettles -64 8th & 9th; Wiseman -65 9th; Coldfoot DOT-60 5th; Unofficial: Jim River DOT -62 10th.

Zone 5: Beaver: -63 5th; Tanana -60 4th, 8th; Fort Yukon -60 5th; Circle Hot Springs: -62 5th, 6th; Stevens Village -58 4th, 5th; Eagle -60 5th.

Zone 7: Nenana -60 5th; Fairbanks -55 Feb 4th; University of AK Co-op: -54 5th; Eielson AFB: -53 4th, 5th;

North Pole: -59 5th; Two Rivers: -59 5th; Gilmore Creek -53 4th; Moose Creek -57 4th; Healy: -51 4th;

Delta Junction 20 Se: -63 4th; Delta Dairyaire: -65 3rd; Montana Creek DOT: -65 4th; Tanacross: -55 5th;

Anderson: -56 4th, 5th; McKinley Park: -54 5th.

Zone 8: Galena: -64 2nd; Kaltag -65 7th; Ruby: -58 6th; Grayling: -58 1st, 2nd, 4th.

AKZ002>004-007

North Slopes Of Brooks Range - Lower Kobuk Valley-Northern Seward Peninsula - Koyukuk-Upper Kobuk Valleys - Tanana Valley

02	1800AST	0	0	Extreme Windchill
07	2000AST			

Under a very Cold airmass covering Northern Alaska, a strong high pressure center stationary over Russia Far east produced winds of 15 to 30 mph over the Northern Seward Peninsula and Lower Kobuk Valley...and winds of 20 mph through Alaska Range Passes (Zone 7) and Brooks Range Passes (Zones 2 and 5). Lowest wind chill values reported (sustained winds) were:

Zones 2 and 5: Anaktuvuk Pass -90; Chandalar DOT -80, Sag River DOT -80.

Zone 3: Point Hope -75; Kivalina -83; Shishmaref -80; Buckland -78; Kotzebue -93; Selawik -80

Zone 7: Nabesna -81; Denali Park -87

AKZ001>003-006>007-010

Arctic Slope Coastal - North Slopes Of Brooks Range - Lower Kobuk Valley-Northern Seward Peninsula - Southern Seward Peninsula-Eastern Norton Sound - Tanana Valley - Yukon Delta

07	2000AST	0	0	Extreme Windchill
11	0500AST			

A weak high pressure center in an existing very cold airmass covering Northern Alaska, strengthened on the 9th and produced winds of 15 to 30 mph over the northern Alaska resulting in dangerous Wind Chills. Lowest reported wind chills (sustained wind speeds) were:

Zone 1: Kuparuk -89; Deadhorse -91; Prudhoe Bay -92.

Zone 2: Anaktuvuk Pass -89.

Storm Data and Unusual Weather Phenomena

February 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

ALASKA, Northern

Zone 3: Point Hope -93; Kotzebue -97; Selawik -103.
Zone 6: Unalakleet -84.
Zone 7: Denali Park -70.
Zone 10: Saint Marys -79

AKZ003-006-009 Lower Kobuk Valley-Northern Seward Peninsula - Southern Seward Peninsula-Eastern Norton Sound - St. Lawrence Island-Bering Strait Coast

09	0900AST	0	0	Blizzard
12	0200AST			

A low pressure center and its associated frontal system moved northeast across the Bering Sea and dissipated in the Chukchi Sea early the morning of the 12th. Blizzard conditions occurred at:

Zone 3: Kotzebue, Point Hope, Kivalina, Selawik.
Zone 6: Golovin, Nome (close).
Zone 9: Gambell, Savoonga.

AKZ009>010 St. Lawrence Island-Bering Strait Coast - Yukon Delta

13	0200AST	0	0	Blizzard
14	1800AST			

AKZ009 St. Lawrence Island-Bering Strait Coast

13	1400AST	0	0	High Wind (G54)
14	0900AST			

A very strong low pressure center of 944 mbs moved slowly from south of the Aleutian chain to west of the Pribilofs late on the 14th and then slowly weakened. In addition, wind gusts of 60 to 62 mph occurred at times at Gambell. Blizzard conditions occurred at:

Zone 9: Gambell; Tin City.
Zone 10: Hooper Bay; Cape Romanzof

AKZ009 St. Lawrence Island-Bering Strait Coast

17	1000AST	0	0	Blizzard
	1400AST			

A small weather system moved into the northern Bering Sea. Blizzard conditions occurred on Saint Lawrence Island, only at Gambell.

ALASKA, Southeast

NOT RECEIVED.

ALASKA, Southern

AKZ012>013 Kuskokwim Valley - Susitna Valley

01	0000AST	0	0	Extreme Windchill
08	2359AST			

AKZ015>019 Cook Inlet - Bristol Bay Coastal - Central Gulf Coast - Kodiak Island-Eastern Alaska Peninsula - Western Alaska Peninsula

01	0000AST	1	1	250K	Extreme Cold
13	2359AST				

M42BO

AKZ017>018 Central Gulf Coast - Kodiak Island-Eastern Alaska Peninsula

01	0000AST	0	0	High Wind (G80)
12	2359AST			

Wind chills as low as 107 degrees below zero continued at Cantwell, in the northern Susitna Valley, briefly improving from the 2nd to the 4th as the cold snap went into its second week. Around Anchorage, temperatures remained below 20 degrees from the 25th of January until the 13th of February. Temperatures on the east side of Anchorage in low lying, un-populated areas reached 43 below zero..while International Airport readings as cold as 28 below were reported.

The extreme cold also impacted Cook Inlet by causing increased/new ice growth. During the cold snap, movement of this ice caused damage to a urea barge and the pier it was moored at. A deck barge was ripped from its anchorage by the heavy ice flow. The Coast Guard cutter "Roanoke Island" reported that they were pinned to their moorings in 3-6 inches of ice, unable to depart without the assistance of an icebreaking tug (the low in Homer was -10 degrees F).

From February 1 - 12, strong northwest winds were reported across Kodiak Island. Gusts reached 92 mph at a remote site on Kodiak Island (Booth Lake). On the 7th, Sunday, wind gusts reached 59 mph at the Kodiak airport on the Coast Guard Base between 6 and 8am. Additionally during this cold spell, frozen pipes were reported in Ouzinkie and Larsen Bay, small villages on the Island. A frozen water main was also reported in Old Harbor, affecting the school and office buildings. Frozen pipes were also reported at the U.S. Fish and Wildlife housing units in Kodiak.

Storm Data and Unusual Weather Phenomena

February 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

ALASKA, Southern

Problems with the cold were reported even across parts of the Alaska Peninsula and adjacent offshore islands. Sand Point reported problems with their water system, as residents let their taps run to prevent freezing. The unseasonable cold caused several problems across Southcentral Alaska as the cold air reached well south of the western and central Gulf of Alaska. Frozen pipes were reported in at least one Kodiak island village. heavy ice caused damage to at least one urea vessel in Cook Inlet and to the Nikiski dock. Fuel problems were reported in Seldovia.

There were also scattered reports of fuel gelling problems (number 2 diesel) due to the frigid air. As a matter of fact, this gelling of number 2 diesel fuel is a significant problem at many Gulf of Alaska Coastal communities and Alaska Peninsula villages when unusually cold air penetrates these areas..not only for home/business heating, but for electric generating systems that many of these communities rely on. Both Port Alsworth and Ouzinkie needed special fuel deliveries.

Also from February 1 - 12, winds ranging from 50 to locally 69 mph were reported around Prince William Sound and the Central North Gulf Coast. Reporting sites with strong winds included Seward, Valdez and at several remote sites in the Sound. The highest winds (81 mph) were reported at the NWS official observation site at the Whittier Boat Harbor from midnight to 9am on the 7th. Locally stronger winds (90+ mph), however, were reported by residents around Whittier. The winds caused damage to several boats, including a lost bimini, radar torn loose from fittings, canvasses torn off of boats, inflatables removed by the wind, sail damage due to unfurling and winds ripping and fraying material and fender damage. The cold (down to -20 F) caused major freezeups at Whittier Manor. Frozen pipes were also reported at the Begich Tower complex where incoming pipes froze even below the 8 foot depth.

February 3rd saw yet another fatality in the coastal waters of Resurrection Bay. The F/V Northern Aurora capsized in rough seas and heavy freezing spray. Two fishermen on board. One survived and was rescued by the USCG. The other died. On scene reports by the USCG.. "north winds 45 to 50 kts and seas to 8 feet with heavy fog and wind chills to 65 below".

From 4am AST Friday, February 5th through Saturday, February 6th, wind chills calculated down as low as 107 below zero at Sparrevohn airport.

The strong outflow winds through the Alaska range and Chugach and Wrangell Mountains continued through Saturday, February 13th. Several areas adjacent to Prince William Sound and the Kenai Peninsula were affected. High wind warnings and extreme wind chill warnings were issued for much of Southcentral Alaska during the first week of February.

Temperatures finally began to return to normal during the weekend of 2/12 - 2/14. Several low temperature records were either tied or broken across Southcentral Alaska.

Aleutian Islands

Dutch Harbor to Countywide

03	0000AST 2359AST	0	0	750K	Seiche
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The fishing vessel "Destination", a 280 foot factory trawler reported damage from a rogue wave while transiting from Dutch Harbor to the fishing grounds in the Bering Sea. \$750,000.00 damage was done to electronic gear when the rogue wave blew out the pilot house windows, damaging all electronic gear on the bridge, including the gyro compass and the radar. The vessel returned safely to Dutch Harbor for repairs.

AKZ019

Western Alaska Peninsula

06	0400AST	0	0	Blizzard
07	1500AST			

Blizzard conditions were reported at several locations along the Alaska Peninsula...as cold arctic air persisted and winds picked up.

AKZ020

Aleutian Islands

10	0000AST 1800AST	0	0	High Wind (G55)
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A vigorous low moved northward into the extreme southwest Bering Sea. Wind gusts reached 63 mph at Shemya Wednesday on the south and southwest side of the low.

AKZ016>019-021

Bristol Bay Coastal - Central Gulf Coast - Kodiak Island-Eastern Alaska Peninsula - Western Alaska Peninsula - Pribilof Islands

13	0600AST	0	0	High Wind (G69)
15	1500AST			

Strong east to southeast winds preceded a vigorous front associated with a deep Aleutian low. The low curved east northeast from the Central Aleutians to between Adak and Saint Paul Island Saturday. The front elongated east and northeast...extending from the Pribilofs through Unimak Pass Saturday afternoon. Adjusted southeast wind gusts from the Cold Bay ASOS reached 70 mph. At

Storm Data and Unusual Weather Phenomena

February 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

ALASKA, Southern

Saint Paul, adjusted ASOS winds reached 64 mph.

Adjusted wind gusts reached 52 mph ahead of the front late Saturday and 48 mph early Sunday at King Salmon.

At the Kodiak airport, adjusted east southeast winds peaked at 58 mph just ahead of the front.

Along the Kuskokwim Delta, ASOS adjusted wind gusts also reached 52 mph Sunday morning.

Along the Central North Gulf Coast, east southeast wind gusts peaked very close to 80 mph at Middleton Island.

AKZ015-017>019

Cook Inlet - Central Gulf Coast - Kodiak Island-Eastern Alaska Peninsula - Western Alaska Peninsula

13	0800AST	0	0	High Wind (G81)
15	2300AST			

Portage ASOS adjusted east wind gusts reached 93 mph between 9:15am and 9:45am Sunday.

A moderate front, preceded by brisk easterly winds, continued to elongate eastward across the Alaska Peninsula and into the Gulf of Alaska.

AKZ015>016

Cook Inlet - Bristol Bay Coastal

14	0000AST	0	0	20K	Heavy Snow
15	2359AST				

Heavy snow around Kachemak Bay and several areas around Iliamna lake area caused numerous power outages and felled power poles. The heavy snow was caused by overrunning across the arctic front...piling anywhere from 1 - 3 feet of very wet snow around communities adjacent to Kachemak Bay. Parts of Homer, Tutka Bay and Halibut Cove were without power for periods. Electricity was also reported off at times from Homer to Anchor Point.

Scott Ulmer, owner of Ulmer's Drug and Hardware said "the snowstorm was the worst he could remember in his 20 years. Ulmer reported "This caused more damage on the ridge and hillside than I can remember every seeing here. There are alders flat on the ground and birch trees split right down the middle. There are also a number of power lines down." Homer Electric reported power outages for close to 400 customers. Several dozen households were without power for much of Sunday night, both from downed lines and from shorting out caused by lines swinging together. Roads were impassable in some areas where lines were down. Five poles were reported down in the Baycrest Hill area and three poles down in the Ohlson Mountain area. From Sunday night through Monday morning, 3 departures from Anchorage to the Homer airport had to be cancelled due to windy and icy conditions at the Homer airport Sunday night and due to low visibilities early Monday at the height of the snowstorm.

Bill "Pinky" Morse, who lives in Fritz Creek just east of the population center in Homer, reported water on roads up to a foot and a half deep due to frozen culverts.

A brief power also occurred around Kenai-Soldotna affecting about 2,000 customers Monday morning due to a transmission problem, possibly snow related, between Anchorage and the Kenai Peninsula.

In Iliamna, affected by the same snowstorm, 8 poles were snapped and lines were damaged, also causing power outages. Power and phone service was also out at Newhalen, a small community at the mouth of the New Halen River which feeds Iliamna Lake. Replacing the poles was complicated because the ground in the area was frozen about 5 feet down. Some homes used back-up generators, while others used camp stoves and candles to try to keep their pipes from freezing.

The heavy snow ended across the Kachemak Bay area mid Monday.

AKZ016

Bristol Bay Coastal

15	0000AST	0	0	Extreme Windchill
	2359AST			

Wind chills reached 80 below zero at both Cape Newenham and King Salmon.

AKZ017

Central Gulf Coast

18	0000AST	0	0	High Wind (G50)
	1200AST			

Brisk southwest winds followed a vigorous, but weakening low as it moved northwestward into Prince William Sound early Thursday. Adjusted wind gusts at Middleton Island reached 58 mph on the back side of the low.

AKZ011-015>016-018>020

Kuskokwim Delta - Cook Inlet - Bristol Bay Coastal - Kodiak Island-Eastern Alaska Peninsula - Western Alaska Peninsula - Aleutian Islands

19	0600AST	0	0	High Wind (G100)
21	0900AST			

Storm Data and Unusual Weather Phenomena

February 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
<u>ALASKA, Southern</u>									
AKZ015									
Cook Inlet									
	20	0500AST			0	0			Heavy Snow
	21	1200AST							
An intense 962 mb low moved into the central Aleutians Friday, decelerating and curving north to 120 miles southwest of the Pribilofs early Saturday as a 955 mb center. The low then began to slowly drift north to a position 150 miles northwest of Saint Paul Island early Sunday. The front associated with this intense storm moved through Dutch Harbor/Unalaska at around 9 pm Friday then through Bristol Bay to just north of Nunivak Island back into the central Bering Sea around the low.									
Strong southeast winds preceded the front, gusting to 115 mph in Iliuliuk Bay near Dutch Harbor. The gusts were measured by the Coast Guard Cutter "Mellon" and also at the APL dock on the Bay's southwest coast. The "Heikfu" was awaiting a load of frozen fish, when gusts began to rapidly increase Friday afternoon. The vessel began to drag anchor and went aground near Rocky Point. The Dutch Harbor harbormaster relayed that 'it was a good thing that there were only wind waves involved, instead of swells which could have more permanently grounded the vessel'. Fortunately, no lives were lost and no fuel was spilled...however it was several days later before the vessel was re-floated and moved to a repair dock.									
On the south side of the low, adjusted wind gusts reached 56 mph at Dutch Harbor and 65 mph at Adak. Winds were accompanied by driving snows, creating brief blizzard conditions. Communications to and from Dutch Harbor/Unalaska were cut off for about 6 hours as heavy snow piled up on the 'earth station relay' which feeds and downloads transmissions from a satellite.									
Prefrontal winds were also very strong along the Alaska Peninsula. Adjusted winds at Cold Bay reached 75 mph just prior to the frontal passage. Sustained southwest winds of 58 mph on the back side of the low were reported by several ships just northwest of the Peninsula.									
Midday Saturday, prefrontal, southeast, adjusted wind gusts reached as high as 73 mph at Cape Newenham, right at the border of the Bristol Bay and Kuskokwim Delta zones. Winds are typically accelerated by terrain in this area, however adjusted winds at King Salmon reached 46 mph, with 60 mph adjusted gusts recorded at Iliamna. Just offshore of the Kuskokwim Delta, adjusted prefrontal wind gusts at Mekoryuk reached 58 mph. Early Saturday evening, gusts reached 76 mph at Cape Romanzof, another area where winds are accelerated by terrain.									
On Kodiak Island, adjusted prefrontal wind gusts were clocked at 61 mph at the airport. Booth Lake RAWS recorded gusts of 55 mph.									
Across the Kenai Peninsula, locally strong winds were also reported. Gusts reached close to 40 mph around Homer...along with 8 inches of snow in town and 18 inches of new snow along the Ridge. Heavy snow began Saturday and ended Sunday around Kachemak Bay.									
Further north, wind gusts reached 64 mph at the Portage Visitors Center several times Saturday. Saturday evening, wind gusts of 55 mph were recorded at Glen Alps (Upper Anchorage hillside).									
AKZ017									
Central Gulf Coast									
Cordova to Countywide	26	0000AST			0	0	5K		Heavy Snow
		2130AST							
A small, but wet low at the southern entrance to Prince William Sound caused significant overrunning of the arctic front and was responsible for snows ranging form 1 to locally 3 feet across land areas adjacent to Prince William Sound Friday. Heaviest snows were reported in the city of Cordova...where nearly 3 feet of snow kept road crews busy well into Saturday.									
AKZ015									
Cook Inlet									
	26	1200AST			0	0			High Wind (G53)
		1500AST							
Adjusted east winds at Portage gusted to 60 mph Friday. These winds resulted from an exiting low in northwest Prince William Sound.									
AKZ011-016									
Kuskokwim Delta - Bristol Bay Coastal									
	26	0000AST			0	0			Extreme Windchill
	28	0700AST							
AKZ019									
Western Alaska Peninsula									
	27	0300AST			0	0			High Wind (G58)
	28	0700AST							

Storm Data and Unusual Weather Phenomena

February 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

ALASKA, Southern

Northwest winds increased Saturday across the Alaska Peninsula as pressures began to fall in the northern Gulf of Alaska and moderate high pressure ridging spread into the Bering Sea. Wind gusts reached 67 mph at Chignik, on the southeast side of the Alaska Peninsula, as cold air funnelled into the North Pacific from the mainland and Bristol Bay. The strong winds were also accompanied by blowing snow and snow squalls.

Wind chills as low as 55 below were calculated across the Bristol Bay area and Kuskokwim Delta as cold arctic air combined with winds in the 10 to 25 mph range.

AKZ020

Aleutian Islands

28	0000AST	0	0	High Wind (G78)
	2359AST			

A strong weather front approached the Kamchatka Peninsula and extreme western Aleutians from the southwest Sunday. The front was preceded by strong southeast winds...locally gusting to 90 mph along the western Aleutians.

AKZ017

Central Gulf Coast

28	1200AST	0	0	High Wind (G55)
	2359AST			

Strong north winds were reported around Seward...with adjusted ASOS gusts reaching 63 mph late Sunday as a moderate low moved from near Middleton Island to just south of the Kenai Fiords.

AKZ017

Central Gulf Coast

28	1500AST	0	0	Blizzard
	2359AST			

Strong southwest winds originating up on the Whittier Glacier, just southwest of town, gusted to 45 mph.

The strong winds combined with overrunning snow northwest of the arctic front, to produce several hours of blizzard conditions in snow and blowing snow. Visibilities were frequently below 1/4 mile from 8 pm Sunday to 12 am Monday.

AMERICAN SAMOA

Manu'A County

Countywide	05	1030SST	0	0	Heavy Rain
		1700SST			

Rose County

Countywide to Central Portion	05	1030SST	0	0	Heavy Rain
		1700SST			

Swains County

Countywide	05	1030SST	0	0	Heavy Rain
		1700SST			

Tutuila County

Countywide	05	1030SST	0	0	Heavy Rain
		1700SST			

Heavy rain was caused by a trough of low pressure over Samoa. The total rainfall recorded for this event by WSO-Pago Pago was 1.85 inches.

Manu'A County

Countywide	16	0000SST	0	0	Heavy Rain
		1500SST			

Rose County

Countywide	16	0000SST	0	0	Heavy Rain
		1500SST			

Swains County

Countywide	16	0000SST	0	0	Heavy Rain
		1500SST			

Tutuila County

Countywide	16	0000SST	0	0	Heavy Rain
		1500SST			

Heavy showers were caused by a disturbance to the southwest of the Samoan Islands. A line of thunderstorms was moving toward Samoa from the southwest. The total rainfall received at WSO-Pago Pago for this event was 2.64 inches.

ASZ001>004

Swains - Tutuila - Manu'A - Rose

16	1300SST	0	0	High Wind (G40)
19	2359SST			

Gusty winds that were generated by an active trough of low pressure about 300 miles south of American Samoa caused several days of high winds. Peak winds of 46 mph were recorded on the 19th.

Storm Data and Unusual Weather Phenomena

February 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

AMERICAN SAMOA

Manu'A County

Countywide	26	1330SST 2359SST			0	0			Heavy Rain
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Rose County

Countywide	26	1330SST 2359SST			0	0			Heavy Rain
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Swains County

Countywide	26	1330SST 2359SST			0	0			Heavy Rain
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Tutuila County

Countywide	26	1330SST 2359SST			0	0			Heavy Rain
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Heavy showers with scattered thunderstorms were caused by an active trough of low pressure near the Samoan Islands. The total rain for this event was 4.30 inches, and this event had the most measurable rain for the month of February. The total precipitation recorded by WSO-Pago Pago for the month of February was 14.50 inches or 114% of normal.

ARIZONA, Central and Northeast

AZZ014

Little Colorado River Valley In Apache County

10	0910MST 1300MST			0	0	1K		High Wind (G84)
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A southerly wind gust of 97 mph (84kts) was measured by a weather spotter in St. Johns at 1045am LST. The St. Johns airport observed a wind gust of 61 mph (53 kts) at 0910am LST. The wind gusts destroyed two sheds and removed the skirting from one mobile home. These wind gusts preceded a cold front that crossed northern Arizona later this day.

ARIZONA, Northwest

NONE REPORTED.

ARIZONA, South

AZZ035

Cochise County

12	1120MST 1700MST			0	0			Dust Storm
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Near zero visibilities developed along portions of Interstate 10 in the Willcox area due to strong winds blowing across the Willcox Playa. The winds were the result of a dry cold front moving through Arizona.

ARIZONA, Southwest

Yuma County

20 N Yuma	05	1507MST 1523MST			0	0		Funnel Cloud
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Short-lived funnel cloud observed by Yuma Foothills spotter. Wall cloud and thunder also reported at this time as cold front moved through the area.

ARKANSAS, Central and North Central

Pope County

1 SW Pottsville to 5 N Atkins	06	2139CST 2149CST	8	250	0	0		Tornado (F2)
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A strong tornado was spawned in southern Pope County about 1 mile southwest of Pottsville. As the tornado moved northeast, it damaged or destroyed several mobile homes and caused roof damage to houses. Several campers, boat sheds and storage buildings also sustained some damage. Most of the damage was along or near Highway 247 just south of Pottsville. Farther northeast, not as much damage was noted. Some trees were downed and the roof of a barn was damaged north of Atkins on Highway 105. A tree fell on a mobile home as well in the same area.

Searcy County

St Joe	06	2140CST			0	0		Thunderstorm Wind (G50)
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Thunderstorm winds knocked down a few trees at St. Joe.

Yell County

Centerville	06	2145CST			0	0		Thunderstorm Wind (G50)
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Thunderstorm winds snapped a tree near Centerville.

Searcy County

Marshall	06	2150CST			0	0		Thunderstorm Wind (G50)
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Thunderstorm winds blew over a 200 pound water fountain at Marshall.

Storm Data and Unusual Weather Phenomena

February 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed Injured	Estimated Damage Property Crops	Character of Storm
<u>ARKANSAS, Central and North Central</u>							
Searcy County							
Harriet	06	2200CST			0 0		Thunderstorm Wind (G50)
Thunderstorm winds downed trees near Harriet.							
Conway County							
Jerusalem	06	2200CST			0 0		Thunderstorm Wind (G50)
Thunderstorm winds removed part of a roof from a home at Jerusalem.							
Van Buren County							
7 NE Clinton	06	2220CST			0 0		Thunderstorm Wind (G50)
Thunderstorm winds knocked down a few trees along Highway 16 northeast of Clinton.							
Perry County							
Perryville	06	2220CST			0 0		Thunderstorm Wind (G50)
Thunderstorm winds caused some roof damage at Perryville.							
Stone County							
Fifty Six	06	2230CST			0 0		Thunderstorm Wind (G50)
Thunderstorm winds blew down some road signs at Fifty Six.							
Faulkner County							
Vilonia	06	2240CST			0 0		Thunderstorm Wind (G50)
Thunderstorm winds caused some roof damage at Vilonia.							
Cleburne County							
5 N Pearson	06	2240CST			0 0		Thunderstorm Wind (G50)
Thunderstorm winds knocked down trees north of Pearson.							
Garland County							
Hot Spgs	06	2245CST			0 0		Thunderstorm Wind (G50)
Thunderstorm winds knocked down some large tree limbs in Hot Springs.							
Izard County							
Brockwell	06	2245CST			0 0		Hail (0.75)
Saline County							
Benton	06	2305CST			0 0		Thunderstorm Wind (G50)
Thunderstorm winds caused some roof damage in Benton.							
Pulaski County							
Little Rock	06	2305CST			0 0		Thunderstorm Wind (G50)
Thunderstorm winds blew down a few trees in Little Rock.							
White County							
1 N Beebe to 1 NE Beebe	06	2305CST 2307CST	1	100	0 0		Tornado (F1)
A weak tornado was spawned on the north side of Beebe close to the intersection of Lemon Street and Highway 367. In that area, a truck garage was destroyed and a truck was overturned. Trees were also downed in the area. Farther northeast, the tornado caused some minor roof damage at a mobile home park...with a couple of mobile homes shifting on their foundations. Not far from the mobile home park, a small shed was thrown and was destroyed.							
Lonoke County							
Cabot	06	2305CST			0 0		Thunderstorm Wind (G50)
Thunderstorm winds blew a tree down onto a transformer in Cabot.							
Hot Spring County							
Malvern	06	2325CST			0 0		Thunderstorm Wind (G50)
Thunderstorm winds knocked several trees down in Malvern.							
Hot Spring County							
2 S Malvern	06	2330CST			0 0		Thunderstorm Wind (G50)
Thunderstorm winds knocked down several trees south of Malvern on or near Highway 67.							
Woodruff County							
5 SE Patterson	06	2355CST			0 0		Thunderstorm Wind (G50)
Thunderstorm winds knocked down a few trees onto Highway 145 southeast of Patterson.							
Grant County							
Sheridan	07	0005CST			0 0		Thunderstorm Wind (G50)
Thunderstorm winds caused some roof damage at Sheridan.							

Storm Data and Unusual Weather Phenomena

February 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>ARKANSAS, Central and North Central</u>									
Dallas County									
8 NE Holly Spgs	07	0010CST			0	0			Thunderstorm Wind (G50)
									Thunderstorm winds knocked down a few trees on or near Highway 9 northeast of Holly Springs.
Ouachita County									
Stephens	07	0010CST			0	0			Thunderstorm Wind (G50)
									Thunderstorm winds knocked down several trees at Stephens.
Calhoun County									
Countywide	07	0015CST			0	0			Thunderstorm Wind (G50)
									Thunderstorm winds blew down trees in various places throughout Calhoun County.
Jefferson County									
Pine Bluff	07	0035CST			0	0			Thunderstorm Wind (G50)
									Thunderstorm winds knocked a tree down onto a house at Pine Bluff.
Jefferson County									
Hooker	07	0045CST			0	0			Thunderstorm Wind (G50)
									Thunderstorm winds partially removed a roof from a mobile home at Hooker.
Cleveland County									
3 N Calmer	07	0050CST			0	0			Thunderstorm Wind (G50)
									Thunderstorm winds knocked down a few trees north of Calmer.
Drew County									
2 N Wilmar	07	0130CST			0	0			Thunderstorm Wind (G50)
									Thunderstorm winds blew down some trees on or near Highway 133 north of Wilmar.
Arkansas County									
5 NW Gillett	09	1955CST			0	0			Hail (0.88)
Jefferson County									
7 SE Reydel	09	2015CST			0	0			Hail (1.00)
Arkansas County									
2 NW Gillett	09	2025CST			0	0			Hail (0.75)
Lincoln County									
5 N Gould	09	2025CST			0	0			Hail (1.00)
Arkansas County									
5 S Gillett	09	2125CST			0	0			Hail (0.88)
Pope County									
5 N Dover	11	1125CST			0	0			Lightning
									Lightning struck a highway directional sign on Highway 7 about 5 miles north of Dover...causing a nearby 8-inch water line to rupture. With water contamination possible, the local water company issued a boil order for its customers.
Pike County									
1 E Daisy	11	1200CST			0	0			Thunderstorm Wind (G50)
									Thunderstorm winds blew down some large tree limbs east of Daisy.
Garland County									
3 SW Hot Spgs	11	1300CST			0	0			Thunderstorm Wind (G50)
									Thunderstorm winds knocked down large tree limbs and power lines southwest of Hot Springs.
Hot Spring County									
Malvern	11	1300CST			0	0			Hail (0.88)
Hot Spring County									
Countywide	11	1300CST			0	0			Thunderstorm Wind (G50)
									Thunderstorm winds knocked down several trees in various parts of Hot Spring County.
Conway County									
Plumerville	11	1320CST			0	0			Thunderstorm Wind (G50)
									Thunderstorm winds blew several cars off of Interstate 40 near Plumerville.
Pulaski County									
Little Rock	11	1325CST			0	0			Thunderstorm Wind (G50)
									Thunderstorm winds blew down a few trees in Little Rock.

Storm Data and Unusual Weather Phenomena

February 1999

									February 1999
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
Killed	Injured	Property	Crops						
<u>ARKANSAS, Central and North Central</u>									
Clark County									
9 ENE Alpine	11	1335CST			0	0			Hail (0.75)
Hot Spring County									
2 SW Bismarck	11	1335CST			0	0			Hail (0.75)
Lonoke County									
Keo	11	1400CST			0	0			Thunderstorm Wind (G50)
Thunderstorm winds knocked down some trees at Keo.									
Lonoke County									
Humnoke	11	1427CST			0	0			Thunderstorm Wind (G50)
Thunderstorm winds blew down a few trees at Humnoke.									
Jefferson County									
Pine Bluff	18	1850CST			0	0			Hail (0.75)
Perry County									
Perryville	27	1410CST			0	0			Hail (0.75)
Faulkner County									
Conway	27	1439CST			0	0			Hail (0.75)
Lonoke County									
Cabot	27	1530CST			0	0			Hail (0.75)
Pulaski County									
4 NW North Little Rock	27	1535CST			0	0			Hail (0.75)
Prairie County									
Des Arc	27	1610CST			0	0			Hail (0.75)
Cleveland County									
8 SE Rison	27	1625CST			0	0			Hail (0.88)
Monroe County									
1 E Fargo	27	1645CST			0	0			Hail (1.00)
Monroe County									
1 E Clarendon	27	1700CST			0	0			Hail (0.75)
Pulaski County									
1 S Gravel Ridge	27	1714CST			0	0			Hail (0.75)
<u>ARKANSAS, East</u>									
Cross County									
Hickory Ridge to Wynne	07	0010CST 0025CST			1	0	75K		Thunderstorm Wind
One man was killed in Wynne when a tree fell onto his mobile home crushing the home. An awning was blown off of a building in Vanndale. Several other businesses were damaged. Several trees and power poles were knocked down. M36MH									
Poinsett County									
Harrisburg	07	0015CST 0020CST			0	0	5K		Thunderstorm Wind
A few trees were knocked down.									
St. Francis County									
Colt	07	0020CST 0025CST			0	0	5K		Thunderstorm Wind
Several trees and power lines were blown down.									
Crittenden County									
Earle to West Memphis	07	0040CST 0055CST			0	1	15K		Thunderstorm Wind
Several trees and power poles were knocked down. One tree fell in the middle of a house injuring one person and trapping a second person in bed.									
Mississippi County									
Leachville to Wilson	07	0050CST 0105CST			0	0	20K		Thunderstorm Wind

Storm Data and Unusual Weather Phenomena

February 1999

February 1999									
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
KilledInjuredPropertyCrops									
<u>ARKANSAS, East</u>									
Some trees and power poles were blown down. Some of the trees fell on at least one house in West Ridge.									
Clay County									
Corning	11	1605CST 1610CST			0	0	25K		Thunderstorm Wind
At least one home and several businesses lost part of their roofs. Several sheds were damaged. Several trees and power lines were blown down.									
Phillips County									
Helena	27	1500CST 1505CST			0	0	15K		Thunderstorm Wind
A couple of buildings in downtown Helena were damaged. Several trees and power lines were also knocked down.									
Poinsett County									
Weiner	27	1625CST 1630CST			0	0	5K		Thunderstorm Wind
A few trees were blown down.									
<u>ARKANSAS, Northwest</u>									
Crawford County									
Van Buren	06	1950CST			0	0			Thunderstorm Wind (G52)
Benton County									
3 E Highfill	06	2000CST			0	0			Flash Flood
Water covered AR Hwy 264 near Highfill, blocking access to the new Northwest Arkansas Regional Airport. The NWS Cooperative Observer 2 miles south of Bentonville reported 2.22 inches of rain for the 24-hour period ending at 7 AM February 7. A clogged drain may have led to this flooding report.									
Sebastian County									
1 N Midland	06	2001CST			0	0	17K		Thunderstorm Wind
Thunderstorm winds blew the roof off of a shop, tore off a chimney, destroyed a porch, destroyed a barn, destroyed an outhouse, and uprooted numerous trees in a localized area about one mile north of Midland.									
Sebastian County									
4 E Hackett to Excelsior	06	2004CST 2005CST			0	0			Thunderstorm Wind (G56)
At 804 PM, there was a HAM radio operator reported 60 mph winds 4 miles east of Hackett. At 805 PM, another HAM radio operator reported 65 mph winds in Excelsior.									
Sebastian County									
2 E Huntington	06	2007CST			0	0			Thunderstorm Wind (G61)
Sebastian County									
Greenwood	06	2010CST			0	0	2K		Thunderstorm Wind (G61)
Winds of 70 mph caused some roof damage in Greenwood.									
Franklin County									
3 NW Ozark	06	2030CST			0	0	0.10K		Thunderstorm Wind
A large tree was blown onto AR Hwy 23 north of Ozark, blocking traffic for part of the night. A line of thunderstorms moved across west central Arkansas in advance of an upper level disturbance on the evening of February 6. These storms produced many reports of 60-70 mph winds and some localized wind damage.									
Further north in Benton County, a stationary front caused a persistent line of non-severe thunderstorms for much of the afternoon. Finally by early evening, one last strong thunderstorm moved along the front. The heavy rainfall with this last thunderstorm caused localized flooding in Benton County.									
ARZ029									
Sebastian									
	08	0000CST 2359CST			0	0			Record Warmth
The high temperature of 77 degrees Fahrenheit at the Fort Smith Regional Airport broke the record high temperature for this date.									
ARZ029									
Sebastian									
	10	0000CST 2359CST			0	0			Record Warmth
The high temperature of 80 degrees Fahrenheit at the Fort Smith Regional Airport broke the record high temperature for this date.									
Crawford County									
Van Buren	11	1030CST			0	0	0.10K		Thunderstorm Wind
A large tree was blown down.									

Storm Data and Unusual Weather Phenomena

February 1999

February 1999									
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
Arkansas, Northwest									
Benton County									
Avoca	11	1035CST			0	0	0.10K		Thunderstorm Wind
Several large tree limbs were blown down.									
Sebastian County									
Ft Smith	11	1040CST			0	0	1K		Thunderstorm Wind
A large restaurant sign was blown over at 58th Street and Rogers Avenue..									
Carroll County									
Berryville	11	1100CST			0	0			Thunderstorm Wind (G52)
Madison County									
Huntsville	11	1115CST			0	0	0.10K		Thunderstorm Wind
Several large tree limbs were blown down.									
A broken line of severe thunderstorms developed across far western Arkansas late on the morning of February 11. The storms formed in unusually warm, humid air preceding a strong cold front as a potent upper level storm approached. The primary threat from these storms was in the form of damaging winds.									
Arkansas, Southeast									
NONE REPORTED.									
Arkansas, Southwest									
Howard County									
4 W Nashville	06	2237CST			0	0			Thunderstorm Wind (G52)
Several large southern pines down.									
Miller County									
4 SE Texarkana	06	2320CST			0	0			Thunderstorm Wind (G52)
Trees toppled along Hwy 71.									
Hempstead County									
6 SW Hope	06	2320CST			0	0			Hail (1.00)
Hempstead County									
10 SW Hope	06	2325CST			0	0			Thunderstorm Wind (G52)
Several large trees toppled onto Hwy 29.									
Lafayette County									
Lewisville	06	2345CST			0	0			Thunderstorm Wind (G52)
Numerous trees down across Hwy 29 and CR 31.									
Nevada County									
8 S Prescott	06	2350CST			0	0			Thunderstorm Wind (G52)
Numerous trees down across Hwy 371.									
Sevier County									
5 SW De Queen	11	1115CST			0	0			Thunderstorm Wind (G52)
Trees down.									
Howard County									
Nashville	11	1130CST			0	0	30K		Thunderstorm Wind (G52)
Shingles blown off a local radio station and wind damage to three homes on the north side of town.									
Howard County									
Nashville	11	1145CST			0	0	0.50K		Thunderstorm Wind (G61)
Trees down on Highway between Nashville and Mineral Springs. Tin roof off shed in Nashville.									
Miller County									
5 N Fouke	11	1200CST			0	0			Thunderstorm Wind (G52)
Trees down along Hwy 71.									
Hempstead County									
7 W Hope	11	1210CST			0	0			Thunderstorm Wind (G62)
Trees down along I-30.									
Nevada County									
15 S Prescott	11	1250CST			0	0			Thunderstorm Wind (G52)
Numerous trees down along CR 293.									

Storm Data and Unusual Weather Phenomena

February 1999

February 1999									
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
<u>ARKANSAS, Southwest</u>									
Columbia County									
Taylor	11	1320CST			0	0			Thunderstorm Wind (G52)
Trees down in town along CR 18.									
<u>CALIFORNIA, Extreme Southeast</u>									
NONE REPORTED.									
<u>CALIFORNIA, North Central</u>									
CAZ013>014-063-068>069	Shasta Lake/North Shasta County - Burney Basin/Eastern Shasta County - Mountains Southwest Shasta County To Northern Lake County - Mt Shasta/Western Plumas County - West Slope Northern Sierra Nevada								
	06	0420PST			0	0			Winter Storm
	07	1224PST							
Snow accumulations approached four feet at several Northern Sierra Nevada ski resorts. Mount Shasta reported two feet of new snow. Water equivalents for the event ranged between 2.00 and 6.00 inches. Portions of Interstate 80 and 5 were closed for several hours due to blizzard-like conditions. Portions of Highway 50 and 88 were closed as well due to avalanche patrol.									
CAZ015>017	Northern Sacramento Valley - Central Sacramento Valley - Southern Sacramento Valley								
	06	0423PST			0	0	50K		High Wind (G59)
	07	1130PST							
Prolonged pre-frontal winds exceeding 50 mph disrupted service for 4,500 PG&E and SMUD customers. Two homes in north Tehama County were damaged. One by an uprooted tree, the other by a large limb.									
CAZ069	West Slope Northern Sierra Nevada								
	06	1600PST			1	3			Avalanche
		2200PST							
Four individuals were buried while sledding outside their lakeside cabin near the Sugar Bowl ski resort. Three of the individuals were able to dig themselves out and only sustained minor injuries. The fourth died of cardiac arrest after being trapped in the snow for six hours.									
M21OT									
Sacramento County									
Sacramento	07	0711PST			0	0			Urban/Sml Stream Fld
		1005PST							
Law enforcement officials reported local urban flooding in Sacramento.									
Solano County									
Vacaville	07	0711PST			0	0			Urban/Sml Stream Fld
		1005PST							
Law enforcement officials reported local urban flooding in Vacaville.									
CAZ013-068>069	Shasta Lake/North Shasta County - Mt Shasta/Western Plumas County - West Slope Northern Sierra Nevada								
	08	0430PST			0	0			Winter Storm
	09	1515PST							
Up to 2 feet of snow accumulated across Northern Sierra Nevada ski resorts while 2 1/2 feet accumulated at Mount Shasta. The heavy snow was responsible for the temporary closure of Interstate 80 and Highway 50 on the afternoon of 02/08/99.									
Sacramento County									
Elk Grove	09	0134PST			0	0			Urban/Sml Stream Fld
		1300PST							
An off duty National Weather Service employee reported several inches of water covering the roadway on Elk Grove Boulevard.									
CAZ016	Central Sacramento Valley								
	09	0300PST			0	0	35K		High Wind (G45)
		0940PST							
Pre-frontal winds were responsible for power outages at more than 11,000 Butte County homes. Six homes were damaged, one severely, by falling trees and limbs.									
Shasta County									
5 N Burney	09	0707PST			0	0			Urban/Sml Stream Fld
		1101PST							
Burney Creek left its banks and flooded agricultural fields north of town.									
Calaveras County									
15 W Bummerville	09	0846PST			0	0	20K		Flash Flood
		1300PST							
Cosgrove Creek left its banks, surrounded four homes, poured into a low-lying golf course, threatened sewage treatment ponds, and									

Storm Data and Unusual Weather Phenomena

February 1999

February 1999									
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
CALIFORNIA, North Central									
	temporarily closed Highway 26.								
Tuolumne County									
Sonora	09	0930PST 1300PST			0	0			Flash Flood
Woods Creek left its banks and flooded isolated areas of downtown Sonora.									
Tuolumne County									
Tuolumne	09	0930PST 1300PST			0	0			Flash Flood
An unnamed tributary left its banks and flooded isolated areas of Tuolumne(city of). Sandbagging was required.									
Tuolumne County									
Jamestown	09	0930PST 1300PST			0	0			Flash Flood
An unnamed tributary left its banks and flooded isolated areas of Jamestown. Sandbagging was required.									
Amador County									
Jackson	09	1035PST 1300PST			0	0			Flash Flood
Jackson Creek left its banks and flooded areas of downtown Jackson. The California Department of Forestry aided in sandbagging and saved downtown businesses from damage.									
Amador County									
Sutter Creek	09	1035PST 1300PST			0	0			Flash Flood
Sutter Creek left its banks and flooded isolated areas of Sutter Creek(town of). Sandbagging was not necessary.									
Amador County									
Sutter Creek	09	1045PST 1300PST			0	0			Flash Flood
An unnamed tributary off of Gopher Gulch in the town of Sutter Creek rose quickly and topped the Badger Street bridge.									
CAZ068>069 Mt Shasta/Western Plumas County - West Slope Northern Sierra Nevada									
	15	1546PST			0	0			Heavy Snow
	16	0350PST							
12 to 18 inches of snow accumulated across higher terrain and ski resorts of the Northern Sierra Nevada.									
CAZ068>069 Mt Shasta/Western Plumas County - West Slope Northern Sierra Nevada									
	18	0415PST 2048PST			0	0			Heavy Snow
10 to 14 inches of snow accumulated across the higher terrain and ski resorts of the Northern Sierra Nevada.									
CAZ013>014-063-068>069 Shasta Lake/North Shasta County - Burney Basin/Eastern Shasta County - Mountains Southwest Shasta County To Northern Lake County - Mt Shasta/Western Plumas County - West Slope Northern Sierra Nevada									
	20	1525PST			0	0			Winter Storm
	21	0325PST							
Middle elevations received 6 to 8 inches of snow while higher terrain received 2 to 4 feet. Portions of Interstate 80 and Highway 50 were temporarily closed.									
CAZ013-068>069 Shasta Lake/North Shasta County - Mt Shasta/Western Plumas County - West Slope Northern Sierra Nevada									
	24	1530PST			0	0			Heavy Snow
	25	0900PST							
One foot of snow accumulated across higher terrain and ski resorts of the Northern Sierra Nevada and Southern Cascades.									
CALIFORNIA, Northeast									
CAZ072 Greater Lake Tahoe Area									
	06	0500PST			0	0	0		Heavy Snow
	10	0500PST							
4 day storm total of 8-11 feet of snow at Kirkwood Ski Area.									
CAZ072 Greater Lake Tahoe Area									
	06	0530PST			0	0	0		Heavy Snow
	07	0530PST							
24 hour snow total of 18-24 inches at Kirkwood Ski Resort.									

Storm Data and Unusual Weather Phenomena

February 1999

February 1999									
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
Killed	Injured	Property	Crops						
CALIFORNIA, Northeast									
CAZ072	Greater Lake Tahoe Area								
06	0530PST				0	0	0		Heavy Snow
10	0530PST								
4 day storm total of 8 feet of snow at Boreal Ski Area.									
CAZ072	Greater Lake Tahoe Area								
06	0600PST				0	0	0		Heavy Snow
10	0600PST								
4 day storm total of 8 feet of snow at Sierra at Tahoe Ski Area.									
CAZ072	Greater Lake Tahoe Area								
06	0630PST				0	0	0		Heavy Snow
10	0630PST								
4 day storm total of 6.5 to 9.5 feet of snow at Alpine Meadows Ski Resort.									
CAZ072	Greater Lake Tahoe Area								
06	0730PST				0	0	0		Heavy Snow
07	0730PST								
24 hour snow total of 30-36 inches at Boreal Ski Area.									
CAZ072	Greater Lake Tahoe Area								
06	0730PST				0	0	0		Heavy Snow
07	0730PST								
24 hour snow total of 24 inches at Sierra at Tahoe Ski Resort.									
CAZ072	Greater Lake Tahoe Area								
06	0800PST				0	0	0		Heavy Snow
09	0800PST								
Storm total of 58 inches of snow over the last 3 days in the vicinity of Brockway Summit, elevation 7000 feet.									
CAZ072	Greater Lake Tahoe Area								
06	1000PST				0	0	0		Heavy Snow
07	0958PST								
Spotter report of 24-36 inches of new snow in 24 hours above Truckee, at an elevation of 6500 feet.									
CAZ071	Lassen/Eastern Plumas/Eastern Sierra								
06	1420PST				0	0	2K		High Wind
Winds estimated to be over 60 mph causing roof damage to homes in Pittville.									
CAZ072	Greater Lake Tahoe Area								
07	0800PST				0	0	0		Heavy Snow
09	0800PST								
48 hour snow total of 48-60 inches at Tahoe Donner near Truckee, elevation 6500 feet.									
CAZ073	Mono								
07	1420PST				0	0	0		Heavy Snow
	1720PST								
5 inches of snow in a 3 hour period at Mammoth Lakes, elevation 7500 feet.									
CAZ072	Greater Lake Tahoe Area								
08	0512PST				0	0	0		Heavy Snow
09	0512PST								
24 hour snow total of 24 inches at Sierra at Tahoe ski resort.									
CAZ072	Greater Lake Tahoe Area								
08	0514PST				0	0	0		Heavy Snow
09	0514PST								
24-36 inches of snow in 24 hours at Kirkwood Ski Resort.									
CAZ072	Greater Lake Tahoe Area								
08	0538PST				0	0	0		Heavy Snow
	1438PST								
12 inches of snow in last 9 hours at Tahoe City, elevation 6300 feet.									
CAZ072	Greater Lake Tahoe Area								
08	0600PST				0	0	0		Heavy Snow
09	0600PST								
24 hour snow total of 12-32 inches at Northstar Ski Area.									

Storm Data and Unusual Weather Phenomena

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Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
CALIFORNIA, Northeast									
CAZ072			Greater Lake Tahoe Area						
	08	0620PST			0	0	0		Heavy Snow
	09	0620PST							
	24 hour snow total of 25-35 inches at Alpine Meadows Ski Resort.								
CAZ072			Greater Lake Tahoe Area						
	08	0720PST			0	0	0		Heavy Snow
		1420PST							
	8-10 inches of snowfall in 7 hours in the town of Meyers, elevation 6340 feet.								
CAZ072			Greater Lake Tahoe Area						
	08	0810PST			0	0	0		Heavy Snow
		1610PST							
	9 inches of snow in an 8 hour period in Tahoe City, elevation 6300 feet.								
CAZ073			Mono						
	08	2215PST			0	0	0		Heavy Snow
	09	1015PST							
	8-10 inches of accumulation overnight in Mammoth Lakes. At time of spotter report, heavy snow with winds estimated at 50-60 mph.								
CAZ071			Lassen/Eastern Plumas/Eastern Sierra						
	09	0600PST			0	0	0		Heavy Snow
		1025PST							
	5 inches of snow in 4 hours and 30 minutes at Pittville, elevation 3300 feet.								
CAZ073			Mono						
	09	1000PST			0	0	0		Heavy Snow
	10	1000PST							
	24 hour snow total of 24 inches atop Deadman's Summit, near Crestview.								
CAZ073			Mono						
	09	1200PST			0	0	0		Heavy Snow
		1305PST							
	3 inches of snowfall in a 1 hour period in Coleville, elevation 5100 feet. Strong winds accompanied the snow leaving 6 inch drifts in just 1 hour.								
CAZ071			Lassen/Eastern Plumas/Eastern Sierra						
	18	1042PST			0	0	0		High Wind (G63)
	Peak wind gust of 63 knots recorded at Doyle.								
CAZ071			Lassen/Eastern Plumas/Eastern Sierra						
	18	1200PST			0	0	5K		High Wind
	Semi tractor-trailer blown over on Highway 395 near Janesville. No injuries reported.								
CAZ072			Greater Lake Tahoe Area						
	18	1255PST			0	0	0		Heavy Snow
		1655PST							
	6 inches of snow in 4 hours at Caples Lake, elevation 7798 feet.								
CAZ073			Mono						
	18	1300PST			0	0	0		High Wind (G56)
	Peak wind gust of 65 mph recorded at Mono Lake.								
CAZ072			Greater Lake Tahoe Area						
	20	0530PST			0	0	0		Heavy Snow
	21	0530PST							
	24 hour snow total of 24-30 inches at Kirkwood Ski Resort.								
CAZ072			Greater Lake Tahoe Area						
	20	1430PST			0	0	0		Heavy Snow
	21	0834PST							
	11 inches of snow in 18 hours in Truckee, elevation 5900 feet.								
CAZ072			Greater Lake Tahoe Area						
	20	1500PST			0	0	0		Heavy Snow
	21	0900PST							
	15 inches of snow in 18 hours at Tahoe City, elevation 6300 feet.								

Storm Data and Unusual Weather Phenomena

February 1999

February 1999									
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
Killed	Injured	Property	Crops						
<u>CALIFORNIA, Northeast</u>									
CAZ071	Lassen/Eastern Plumas/Eastern Sierra								
20	1530PST				0	0	0		Heavy Snow
21	0935PST								
12 inches of snow in 18 hours in Westwood, elevation 5000 feet.									
CAZ072	Greater Lake Tahoe Area								
20	1600PST				0	0	0		Heavy Snow
21	0600PST								
15-21 inches of snow in 14 hours at Alpine Meadows Ski Resort.									
CAZ071	Lassen/Eastern Plumas/Eastern Sierra								
20	1600PST				0	0	0		Heavy Snow
21	1000PST								
12 inches of snow in 18 hours in Calpine, elevation 4958 feet.									
CAZ071	Lassen/Eastern Plumas/Eastern Sierra								
20	1750PST				0	0	0		Heavy Snow
21	0940PST								
10 inches of snow in 16 hours in Portola, elevation 4860 feet.									
CAZ071	Lassen/Eastern Plumas/Eastern Sierra								
20	1800PST				0	0	0		Heavy Snow
21	0955PST								
10 inches of snow in 16 hours in Sattley, elevation 4944 feet.									
CAZ072	Greater Lake Tahoe Area								
20	1900PST				0	0	0		Heavy Snow
	2135PST								
4 inches of snow in 2 hours and 30 minutes at Echo Summit, elevation 7377 feet.									
CAZ073	Mono								
20	1910PST				0	0	0		Heavy Snow
21	1910PST								
14 inches of snow in 12 hours at Mammoth Lakes, elevation 7800 feet.									
CAZ071	Lassen/Eastern Plumas/Eastern Sierra								
20	2140PST				0	0	0		Heavy Snow
21	0940PST								
4 inches of snow in 12 hours in Pittville, elevation 3300 feet.									
CAZ070	Surprise Valley								
21	0005PST				0	0	0		Heavy Snow
	1205PST								
5 inches of snow in 12 hours in Cedarville, elevation 4630 feet.									
CAZ072	Greater Lake Tahoe Area								
25	0600PST				0	0	0		Heavy Snow
	1330PST								
13 inches of snow in 7 hours and 30 minutes on top of Donner Summit, elevation 7229 feet.									
<u>CALIFORNIA, Northwest</u>									
CAZ004-076	Upper Trinity River - Mendocino Interior								
05	1600PST				0	0			Heavy Snow
06	1300PST								
Heavy snow fell above 2000 feet in interior Northwest California. Oregon Mountain Pass (3200 feet) recorded 16 inches, Coffee Creek (2600 feet) 8 inches, Trinity Center (2000 feet) 8 inches and Iron Mountain (4000 feet) 6 inches.									
CAZ002	Mendocino Coast								
06	0500PST				0	0			Other
	1200PST								
Strong winds between 5 am and noon blew a vent from the roof of Redwood Elementary School in Fort Bragg. Rain water entered through the hole damaging a classroom.									
CAZ003>004	North Coast Interior - Upper Trinity River								
08	2200PST				0	0			Heavy Snow
10	0800PST								
A powerful Pacific storm brought heavy snow to the Northwest California mountains and some snowfall down to sea level. Trinity Center reported 24 inches of snowfall by noon on the 9th. In southeastern Humboldt County near South Fork Mountain, 17 1/2									

Storm Data and Unusual Weather Phenomena

February 1999

February 1999									
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>CALIFORNIA, Northwest</u>									
		inches of snow fell. At the WSR-88D radar, 14 inches fell. Hayfork experienced brief blizzard conditions at 1520 PST on the 9th - visibility was reduced to 300 feet with 30 knot winds. Numerous locations reported 4 to 6 inches.							
CAZ002-076		Mendocino Coast - Mendocino Interior							
	09	0400PST 1230PST			0	0			Flood
		The Navarro River flooded Highway 128 from the mouth to about 10 miles upstream. The Russian River near Hopland flooded Highway 175 and surrounding fields.							
CAZ002-076		Mendocino Coast - Mendocino Interior							
	16 17	0800PST 0900PST			0	0			Flood
		The Navarro River flooded Highway 128 and the Russian River flooded Highway 175 near Hopland.							
CAZ004		Upper Trinity River							
	20	1000PST 2200PST			0	0			Heavy Snow
		Up to six inches of snow fell across Trinity County.							
<u>CALIFORNIA, South Central</u>									
CAZ020>021		Central San Joaquin Valley - Southern San Joaquin Valley							
	02	0200PST 0930PST			0	0			Fog
		Visibility "00" in both Kings and Fresno Counties.							
CAZ020		Central San Joaquin Valley							
	09	0625PST 1400PST			0	0	35K		High Wind (G37)
		Gusty wind was reported beginning at 0625 PST in the Central San Joaquin Valley in Livingston with more gusty wind reports of 30 to 40 MPH as a coldfront moved southeastward through the area. An estimated gust of 44 knots occurred at the Fresno Air Terminal ASOS site at 1147 PST and a 100 year old oak tree was toppled in Reedley around noon. A blowing dust report was received from the Coalinga area around 0755 PST.							
CAZ022>024		Southern Sierra Nevada-Yosemite National Park To Kings Canyon - Tulare County Mountains - Kern County Mountains							
	09	1630PST 2355PST			0	0			Winter Storm
		A period of inclement weather began in Interior Central California very early on the 6th of February with initial reports of high wind in the foothills of the Southern Sierra Nevada (56 MPH at Oakhurst), and events continued through the 9th. The latter portion of this period was marked by a winter storm in the higher elevations. Lower elevations had substantial rainfall along with gusty wind accompanying frontal passage in the late morning hours and early afternoon of the 9th. Over 55,000 utility customers lost power from the snow and wind. In the Fresno area, power was lost to 27,000 customers alone as 13 power poles blew down in northwest Fresno and another 22 were downed throughout the area. In the mountain areas numerous instances of gusty wind to 45 MPH were reported along with substantial rainfall amounts such as the 1.75 inches of rain in the 18-hour period prior to 1110 PST on the 9th at Fish Camp. Tuolumne Meadows in the Southern Sierra Nevada received 9 inches of snow by 0800 PST on the 7th, 23 inches by the 8th, 9 inches by the 9th, and 20 inches reported by 0800 PST on the 10th. Yosemite received 9 inches of snow by the morning of the 8th and 10th with Lodgepole in the Tulare County Mountains receiving 13 inches by the morning of both the 8th and 10th. Near Wishon 24 inches of snow fell on the 9th. In the Kern County Mountains, Tehachapi received 12 inches of snow by the 10th. Rainfall occurring on Sunday the 7th through 0800 on the 8th ranged from 2 to 2.5 inches at CA Zone 22, Southern Sierra Nevada foothill reporting points. San Joaquin Valley 24-hour rainfall amounts varied from near an inch at Merced decreasing to 1/4 inch at Bakersfield.							
CAZ022-024		Southern Sierra Nevada-Yosemite National Park To Kings Canyon - Kern County Mountains							
	09	0722PST 1700PST			0	0			High Wind (G39)
		Spotter report of southeast wind 20-30 MPH with gusts to 45 MPH and precipitation just beginning at 0722 PST.							
Madera County									
12 SE Madera	09	1637PST 1641PST			0	0			Funnel Cloud

Storm Data and Unusual Weather Phenomena

February 1999

February 1999									
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
Killed									
Injured									
Property									
Crops									
Character of Storm									
<u>CALIFORNIA, South Central</u>									
Fresno County									
10 NW (Fch) Chandler Af to 2 NW (Fch) Chandler Af	09	1658PST 1716PST			0	0			Small Hail
Following the funnel cloud report in Madera County at 1637 PST, pea size hail subsequently occurred in Northwest Fresno (4 miles SE of funnel sighting) at 1658 PST and other small hail in the Tower District of Fresno (another 6 miles farther SE) at 1716 PST...all by trained spotters.									
CAZ020>021 Central San Joaquin Valley - Southern San Joaquin Valley									
	11	0400PST 0700PST			0	0			Extreme Cold
Fresno County deciduous area temperatures dropped to 28 to 32 deg. F.									
CAZ020>021 Central San Joaquin Valley - Southern San Joaquin Valley									
	12	0200PST 0800PST			0	0			Extreme Cold
Temperatures in the Fresno County deciduous areas from 27 to 32 deg F.									
CAZ022>023 Southern Sierra Nevada-Yosemite National Park To Kings Canyon - Tulare County Mountains									
	20	2100PST			0	0			Heavy Snow
	21	0400PST							
CAZ024 Kern County Mountains									
	21	1100PST 1600PST			0	0			High Wind (G40)
Tuolumne Meadows in Yosemite National Park received 16 inches of snow overnight. Snow was reported down to the 3000 foot elevation but amounts at the lower elevations were reported only at 1-3 inches. Gusty wind followed the frontal passage early on the 21st with gusts in the Tehachapi Valley up to 40 knots at 1359 PST.									
<u>CALIFORNIA, Southeast</u>									
CAZ026 Owens Valley									
	09	1500PST 2200PST			0	0			Heavy Snow
Heavy snow fell over the southern Sierra dropping 10 inches of snow at Aspendell during the afternoon and evening.									
CAZ026-026-026-026 Owens Valley									
	18	1444PST 2100PST			0	0	15K		High Wind (G67)
High winds were observed in the Owens Valley for several hours during the afternoon and evening. The automated surface observing system (ASOS) at Bishop airport recorded a peak wind gust of 60 mph and the Bishop Fire Department reported a gust of 65 mph. Power lines were downed and shingles were blown off several roofs. An automated sensor near Independence recorded a wind gust of 77 mph and another near Little Lake clocked a gust of 66 mph.									
<u>CALIFORNIA, Southwest</u>									
CAZ060 Apple And Yucca Valleys									
	09	1430PST 1930PST			0	0	60K		High Wind (G52)
Strong winds accompanying a cold front toppled six power poles in Wildomar. Wind gusts to 60 mph were reported in Phelan.									
CAZ048>049-058 San Bernardino County Valley/The Inland Empire - Riverside County Valley/The Inland Empire - San Diego County Mountains									
	11	0230PST			0	0	950K		High Wind (G78)
	12	1400PST							
CAZ049 Riverside County Valley/The Inland Empire									
	11	0900PST			0	30	150K	100K	Dust Storm
	12	0830PST							
San Bernardino County									
Devore	11	0900PST 1000PST			0	1	60K		Wild/Forest Fire
Strong winds blowing through the mountain passes of San Bernardino, Riverside, and San Diego Counties necessitated major road closures by the California Highway Patrol. Extensive property damage occurred throughout and west of the San Gorgonio Pass. Numerous trees and signs were blown down and into buildings and vehicles, causing further damage. A freshly plowed field just									

Storm Data and Unusual Weather Phenomena

February 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

CALIFORNIA, Southwest

west of San Geronio Pass was stripped of it's top soil, and the blowing dirt was tracked for 15 miles downstream. Approximately 5000 residents of Beaumont were in it's path, 30 of whom were treated for breathing problems and rashes. Elsewhere in Riverside County: a large commerical building in Lake Elsinore was blown down, a 150 foot tall tree was blown over and crushed a trailer home, and winds caused power outages and minor brush fires. Further south, in the Laguna Mountains of San Diego County, trees and power lines blown down between Julian and Buckman Springs, caused road closures, power outages, minor brush fires, and destroying one building. Along Interstate 8, numerous highway signs were destroyed and two tractor-trailor rigs were blown over. The winds temporarily died down the afternoon of Feb. 11, then increased again that evening into the morning of Feb. 12.

CALIFORNIA, Upper

CAZ011

Siskiyou County

05 0800PST
07 0800PST

0 0

Winter Storm

Spotter in Mt. Shasta City reported 15 inches of snow.

A strong winter storm moved into Southern Oregon and Northern California on this date. Several locations reported snow verifying a Winter Storm Warning. The warning was issued at 1457 LST on 02/05/99 and cancelled at 0515 LST on 02/07/99.

CAZ011-011-011-011

Siskiyou County

09 0816PST
1200PST

0 0

Winter Storm

Spotter SY42 at MacDoel reported 10" snow since midnight.

The heavy snow episode over Southern Oregon also affected Siskiyou County in Northern California. Unfortunately, no warning was issued for this area.

CAZ011-011-011-011

Siskiyou County

20 0604PST
21 1223PST

0 0

Winter Storm

Spotter SY-49 at Mt. Shasta City reported 6 inches snow since noon and still snowing.

A Winter Storm Warning was issued for Siskiyou county above 3000 feet at 2127 PST on the 20th. The warning was cancelled at 1108 PST on the 21st.

CALIFORNIA, West South Central

CAZ034>035

San Luis Obispo County Central Coast - Santa Barbara County Central Coast

07 1100PST
2100PST

0 0

Heavy Surf

Large northwest swell produced heavy surf along the Central California coast. Widespread surf of 8 to 10 feet with local sets to 12 feet was reported.

CAZ059

Antelope Valley

09 1315PST
1500PST

0 1

Dust Storm

Strong westerly winds, gusting to 45 mph, produced a dust storm in the community of Palmdale. The blowing dust reduced visibilities to near zero miles and caused a 12 car pileup near the intersection of Avenue P and 15th Street. Only one minor injury was reported.

CAZ040-044>047-053>054

Ventura County Coast - Ventura County Interior Valleys - Ventura County Coastal Valleys - Santa Monica Mountains Recreation Area - Los Angeles County Valleys - Ventura County Mountains - Los Angeles County Mountains Excluding The Santa Monica Range

11 0300PST
12 1400PST

0 0

High Wind (G65)

Strong Santa Ana winds developed across Southern California. The gusty northeast winds produced scattered power outages and other damage. In Canyon Country, a mobile home was destroyed when a 50 foot eucalyptus tree was blown down. In Simi Valley, another house was damaged when a 80 foot eucalyptus tree was blown down. No injuries were reported.

CAZ041

Los Angeles County Coasts Including Downtown Los Angeles

20 1620PST

1 3

High Surf

Higher than normal surf swept four people off of a jetty in San Pedro Bay. Three of the people were rescued. However, the fourth person was pronounced dead after emergency personnel could not find his body.

M21IW

Storm Data and Unusual Weather Phenomena

February 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

CALIFORNIA, West South Central

CAZ034>035 San Luis Obispo County Central Coast - Santa Barbara County Central Coast

25	2000PST	0	0	Heavy Surf
26	2100PST			

Large northwest swell produced heavy surf along the Central California coast. Widespread surf of 8 to 10 feet was reported.

CALIFORNIA, Western

Napa County

North Portion	07	0845PST 1145PST	0	0	Flood
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Widespread rain of 4 to 6 inches fell over most of the North Bay Counties with nearly 5 inches in 24 hours near Napa and Santa Rosa.. The Upper Napa River at St Helena crested at 09:41 PST at 13.26 ft. . A number of other small creeks and urban areas recieved some floodiing with some county roads closed by water.

Marin County

Lagunitas	07	1200PST	1	0	24K	Heavy Rain
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a 70 year old woman was killed 2 miles from Laganitas in Mariun County by a 100 foot tree that fell on her car due to the soggy ground and wind. F70TE

Alameda County

Niles	09	0800PST 1600PST	0	0	Flash Flood
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Niles Canyon road closed due to flooding and mud slide due to heavy rain.

CAZ005>007 Sonoma / Marin Counties - San Francisco County - Alameda / Contra Costa Counties

	09	1100PST 1415PST	0	0	1M	High Wind (G60)
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Alameda County

Oakland	09	1400PST 1410PST	0	0	Hail (0.75)
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Smal hail fell in and around the Oakland Zoo.

COLORADO, Central and Northeast

COZ035>036-038>040-042-044-049>050 Northern Front Range Foothills/Upper Laramie And Cache La Poudre River Basins - Southern Front Range Foothills/Clear Creek Basin - Eastern Larimer And Northwestern Weld Counties - Eastern Boulder County/Boulder And Vicinity - Denver Metropolitan Area - Northeastern Weld County - Morgan County/Fort Morgan And Vicinity - Washington County/Akron And Vicinity - Sedgwick And Phillips Counties

02	1848MST	0	0	3M	High Wind (G110)
03	1015MST				

A powerful chinook windstorm struck the Front Range Foothills and adjacent plains. Several locations registered peak wind gusts in excess of 100 mph. Locations to meet or exceeded the century plateau included: 127 mph (110 kts) at Sugarloaf Mountain, 120 mph (104 kts) at Lafayette, 119 mph (103 kts) at Wondervu, 107 mph (93 kts) at Carter Lake, 106 mph (92 kts), 2 miles north of Estes Park, 104 mph (90 kts) at Coal Creek, 103 mph (90 kts) at the Rocky Flats Environmental Test Facility with 100 mph (97 kts) recorded at Longmont and Louisville.

Other peak wind reports included: 97 mph (84 kts) at Boulder, 93 mph (81 kts) at the NCAR Mesa Lab, 89 mph (77 kts) at Red Feather Lakes, 88 mph (77 kts) at Nederland, 86 mph (75 kts) at Aspen Springs, 84 mph (73 kts) atop Niwot Ridge, 83 mph (72 kts) at Blue Mountain, 78 mph (68 kts), 4 miles south of Livermore, 74 mph (64 kts), 1 mile east of Buckhorn Mountain, 64 mph (56 kts), 21 miles north of New Raymer, 61 mph (53 kts) at Evans, 60 mph (52 kts) at Akron and 4 miles east of Haxtun, and 59 mph (51 kts) at Fort Morgan.

The damage associated with the windstorm was extensive. Thirty 70-ft tall power poles were damaged, including several that supported high voltage lines transmitting power directly from generating plants. The combination of downed power poles, power lines and trees resulted in outages for approximately 10,000 residents. In Lafayette, power poles were sheared off for a mile and a quarter stretch. The outages primarily affected residents in Boulder, Broomfield, Lafayette, Louisville and Fort Lupton.

In addition to the outages, high winds ripped apart several roofs in Boulder, including the Boulder County Jail. At Jefferson County Airport, several planes were overturned and some hangers damaged or destroyed. Damage to the airport alone was estimated at \$100,000. Along Interstate 25, just south of the Wyoming border, a tractor-trailer was blown onto its side by strong crosswinds. In southern Jefferson County, localized ground blizzards restricted visibilities to less than 20 feet along U.S. Highway 285, resulting in several accidents. In Pine Junction, a downed tree damaged a nearby residence when it crashed onto the roof. In Bailey, a downed tree crushed a vehicle parked in the resident's driveway.

Storm Data and Unusual Weather Phenomena

February 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

COLORADO, Central and Northeast

COZ035>036

Total damage estimates for the windstorm reached \$3 million, making it the fourth costliest on record in Colorado.

Northern Front Range Foothills/Upper Laramie And Cache La Poudre River Basins - Southern Front Range Foothills/Clear Creek Basin

07 0030MST 1200MST 0 0 0 High Wind (G78)

Another round of chinook winds developed in the Front Range Foothills. Peak wind reports included: 90 mph (78 kts) at the NCAR Mesa Lab, 88 mph (77 kts) at Wondervu, 77 mph (67 kts) at Red Feather Lakes and 73 mph (64 kts) at Estes Park.

**COZ039>040-
042>044-046-048-
050**

Eastern Boulder County/Boulder And Vicinity - Denver Metropolitan Area - Northeastern Weld County - Southern Weld County/Greeley And Vicinity - Morgan County/Fort Morgan And Vicinity - Eastern Elbert And Northern Lincoln Counties/Limon And Vicinity - Logan County/Sterling And Vicinity - Sedgwick And Phillips Counties

10 1400MST 1800MST 0 0 High Wind (G58)

A vigorous cold front moved through the plains of northeastern Colorado during the afternoon and early evening. Peak wind reports included: 67 mph (58 kts), 21 miles north of New Raymer, 58 mph (51 kts), 15 miles west-northwest of Sterling and 9 miles north of Limon, and 58 mph (50 kts), 4 miles east of Haxtun and at Greeley, 54 mph (47 kts) at Fort Morgan, 52 mph (45 kts), 2 miles north of Loveland and 48 mph (42 kts) at Denver International Airport.

Gusty northerly winds caused numerous outages as power poles, power lines and trees were downed. In Loveland, 250 homes were affected by the outages. In Morgan County, at least 260 homes were without power in the towns of Woodrow and Fort Morgan, as 10 poles were snapped during the windstorm. In addition, downed power lines sparked several fires which burned approximately 80 to 100 acres of wheat. A mobile home was also blown onto its side.

At Denver International Airport, the temperature dropped more than 20 degrees in an hour, following the passage of the cold front. Dangerous wind shear conditions at DIA delayed several flights while others were redirected to Colorado Springs. In Montbello, strong winds blew off the roof of a building. More downed power lines sparked a small brush fire, which burned about 10 acres near the former Fitzsimmon's Army Medical Center.

**COZ038-040>041-
043**

Eastern Larimer And Northwestern Weld Counties - Denver Metropolitan Area - Eastern Douglas And Western Elbert Counties/Castle Rock And Vicinity - Southern Weld County/Greeley And Vicinity

10 1800MST 11 0000MST 0 0 0 Winter Storm

Heavy snow developed over southern sections of the Denver Metropolitan Area and along Monument Ridge during the evening hours. Snowfall totals included: 6 inches at Eaglecrest, 6.5 inches at Highlands Ranch and 4 miles northwest of Larkspur, and 8.5 inches, 5 miles south-southeast of Sedalia.

Although snowfall totals elsewhere only ranged from 1 to 3 inches, strong gusty winds caused near blizzard conditions to develop in eastern Larimer County as well as western and southern portions of Weld County. Whiteout conditions were reported at Ault, Eaton, Greeley, Kersey, Keenesburg and along U.S. Highway 85 south of Greeley. Numerous accidents were reported, one which resulted in a fatality.

COZ032>034

Middle Park - Rabbit Ears & Medicine Bow Ranges/Rocky Mountain National Park - Summit County/Mosquito Range/Indian Peaks

17 1800MST 2230MST 0 0 0 Winter Storm

A fast, but potent, Pacific storm system struck portions of the northern mountains. Snow fell at a rate of 2 inches an hour and some locations with snowfall totals ranging from 5 to 9 inches. Strong winds, with gusts generally ranging from 50 to 60 mph, caused whiteout conditions. In fact, a peak wind gust to 77 mph (66 kts) was reported in Silverthorne. As a result, Interstate 70, west of Georgetown, was closed for several hours.

Snowfall totals included: 9 inches at St. Mary's Glacier, 8 inches at Berthoud Pass, Loveland Pass and Winter Park, 7 inches at Hot Sulphur Springs, 6 inches at Copper Mountain and University Camp, with 5 inches at Lake Eldora and Loveland Ski Area.

**COZ035>036-
038>040**

Northern Front Range Foothills/Upper Laramie And Cache La Poudre River Basins - Southern Front Range Foothills/Clear Creek Basin - Eastern Larimer And Northwestern Weld Counties - Eastern Boulder County/Boulder And Vicinity - Denver Metropolitan Area

17 2125MST 18 0030MST 0 0 0 High Wind (G78)

Following the passage of the storm system, damaging bora winds developed in and near the Front Range Foothills. Peak wind

Storm Data and Unusual Weather Phenomena

February 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

COLORADO, Central and Northeast

reports included: 90 mph (78 kts) at the Gamow Tower on the Boulder Campus, 79 mph (69 kts) at the NCAR Mesa Lab and the National Wind Technology Center (NWTTC), 7 miles west of Broomfield, 75 mph (65 kts) at Carter Lake, 72 mph (63 kts) at Blue Mountain and Jefferson County Airport and 71 mph (61 kts), 5 miles south of Fort Collins.

Downed power lines caused major outages in Evergreen, Idaho Springs, Golden and Lakewood. The outage affected at least 10,000 residents. In Golden, the wind toppled a "lightning static protection" line atop a 70-ft, 230,000 volt distribution tower. The downed line, sparked a small grass fire just east of the Lookout Mountain Youth Services Center. The fire burned a path approximately 100 yards wide and a third of a mile long before it was contained.

COZ033>034

Rabbit Ears & Medicine Bow Ranges/Rocky Mountain National Park - Summit County/Mosquito Range/Indian Peaks

21	1800MST	0	0	0	Winter Storm
22	1800MST				

Another Pacific storm system brought strong winds and more heavy snow to portions of the northern mountains. Snowfall amounts included: 17 inches at Keystone, 13 inches at Breckenridge, 12 inches at Copper Mountain, 11 inches at Loveland Ski Area, with 10 inches at Arapahoe Basin and Berthoud. Near whiteout conditions were reported at Cameron Pass.

COZ035>036-
038>040-042-
044>046

Northern Front Range Foothills/Upper Laramie And Cache La Poudre River Basins - Southern Front Range Foothills/Clear Creek Basin - Eastern Larimer And Northwestern Weld Counties - Eastern Boulder County/Boulder And Vicinity - Denver Metropolitan Area - Northeastern Weld County - Morgan County/Fort Morgan And Vicinity - Eastern Adams And Eastern Arapahoe Counties - Eastern Elbert And Northern Lincoln Counties/Limon And Vicinity

22	0515MST	0	0	0	High Wind (G76)
	1530MST				

Strong post frontal or bora winds developed in and near Front Range Foothills, spreading out into portions of northeast plains. Peak gusts included: 87 mph (76 kts) at Golden Gate Canyon, 84 mph (73 kts) at West Fort Collins and Wondervu, 80 mph (70 kts) at the NCAR Mesa Lab, 75 mph (65 kts) at the Rocky Flats Environmental Test Facility, 74 mph (64 kts) at Carter Lake, Jefferson County Airport and 9 miles west-southwest of Rustic, 72 mph (63 kts) at the Gamow Tower on the CU Campus, and 60 mph (52 kts) at Bennett, Hereford and Fort Morgan, and 59 mph (51 kts), 9 miles north of Limon.

COZ035-039>040

Northern Front Range Foothills/Upper Laramie And Cache La Poudre River Basins - Eastern Boulder County/Boulder And Vicinity - Denver Metropolitan Area

22	1815MST	0	0	0	High Wind (G71)
23	0310MST				

Chinook winds developed on a very localized scale overnight in and near the foothills of northern Jefferson and southern Boulder Counties. Peak wind reports included: 82 mph (71 kts) at the Rocky Flat Environmental Test Facility, 80 mph (70 kts) at the NCAR Mesa Lab, 77 mph (67 kts), 4 miles east- northeast of Nederland, and 75 mph (65 kts) at the Gamow Tower on the CU Campus.

COLORADO, East Central

NONE REPORTED.

COLORADO, South Central and Southeast

COZ067-071>072

Teller County/Rampart Range/Pikes Peak - Southern El Paso County/Colorado Springs And Vicinity - Northern El Paso County/Monument Ridge

02	2300MST	0	0	30K	High Wind (G68)
03	1000MST				

A weather disturbance developed a strong pressure gradient across eastern Colorado. Winds gusted between 60 and 80 mph overnight through midmorning in the Pikes Peak region. A semi-truck hauling half of a mobile home was blown over on I-25 just north of Colorado Springs. Wind restrictions for high- profile vehicles were in effect for I-25 at the time. The truck knocked down a light pole, which ignited a small grass fire. Numerous small power outages were reported, and burglar alarms were set off by the high winds in southeast Colorado Springs.

COZ061

Eastern San Juan Mountains

04	2300MST	0	0		Heavy Snow
05	1000MST				

A swift southwest airflow and a weather disturbance brought heavy snow to the eastern San Juan mountains overnight through midmorning of the 5th. Three to 6 inches of snow fell over the lower elevations, while 6 to 8 inches occurred on the passes and high peaks. The summit of Wolf Creek Pass tallied 10 inches of new snow.

COZ074

Upper Huerfano River Basin/Walsenburg And Vicinity

05	0637MST	1	0	30K	High Wind (G60)
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Strong west winds, generally gusting to 50 mph, were occurring over the Walsenburg area the morning of the 5th. An isolated gust,

Storm Data and Unusual Weather Phenomena

February 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage	Crops	Character of Storm
<u>COLORADO, South Central and Southeast</u>									
of unknown magnitude, but estimated at just under 70 mph, overturned a semi-truck hauling half a mobile home. The driver died at the scene of massive head and chest injuries. Wind restrictions for high-profile vehicles were in effect at the time. M34VE									
COZ061		Eastern San Juan Mountains							
	10	0300MST 2200MST			0	0			Heavy Snow
A strong weather disturbance brought heavy snow to Mineral county in the eastern San Juan mountains. Some areas in the higher elevations received over 8 inches of snow. From 4 to 7 inches of snow fell in the Creede area and in and around South Fork.									
COZ065>068-070>075		Northern Sangre De Cristo Mountains - Southern Sangre De Cristo Mountains - Teller County/Rampart Range/Pikes Peak - Western Fremont And Northern Custer Counties - Wet Mountains - Southern El Paso County/Colorado Springs And Vicinity - Northern El Paso County/Monument Ridge - Pueblo And Eastern Fremont Counties/Pueblo And Vicinity - Upper Huerfano River Basin/Walsenburg And Vicinity - Upper Purgatoire River Basin/Trinidad And Vicinity							
	10	1100MST 1400MST			0	0	110K		High Wind (G66)
A strong weather disturbance brought a period of high winds to the southeast mountains and adjacent plains. A few wind gusts over 80 mph occurred in the mountains and over 70 mph in the adjacent plains. In Woodland Park, in Teller county, a part of a roof of a building supply store was ripped off, and several power lines were downed, causing local power interruptions. In the Colorado Springs area, north of town, a truck and towed modular home flipped over and a semi-trailer was tipped over on I-25. There were a few power outages due to downed trees or limbs in the area as well. In the Pueblo area, a truck and towed modular home were blown off I-25 just south of Pueblo. Several small grass fires temporarily were out of control, one consuming 1,500 bales of hay near Avondale. A large downed tree crushed a vehicle in downtown Pueblo. One airline canceled a couple of flights, stranding about 100 passengers. Farther east, in Otero county, burns started by local residents were fanned out of control by winds gusting to around 50 mph. Several residences and other buildings were threatened in the Fowler area. Ironically, the winds blew the poorly anchored roof off the Fowler Fire Department. In the Lamar area, a fire to burn weeds started by employees of a company west of town, threatened a 69-kilovolt power line for several hours. And, part of the roof on an elementary school was ripped off in Springfield by winds approaching 60 mph.									
COZ066-070-072-074		Southern Sangre De Cristo Mountains - Wet Mountains - Northern El Paso County/Monument Ridge - Upper Huerfano River Basin/Walsenburg And Vicinity							
	10 11	1600MST 0700MST			0	0			Heavy Snow
A surge of cold, moist air from the north brought a period of heavy snow accumulations to parts of the southeast mountains and adjacent plains. On Monument Ridge, north of Colorado Springs, up to 6 inches of snow was recorded. Four to 6 inch amounts were common in the Wet mountains, southern Sangre de Cristo mountains, and in the Walsenburg area.									
Prowers County									
3 S Lamar Arpt	17	1500MST 1900MST			0	0			Wild/Forest Fire
A cold front brought gusty winds over 50 mph to the Lamar area in the late afternoon, sparking a large wildfire. Over 7,500 acres were scorched just south of Lamar, but there was no damage to structures.									
COZ061		Eastern San Juan Mountains							
	21 22	2200MST 0400MST			0	0			Heavy Snow
A strong weather system moves through southern Colorado late at night on the 21st into early morning of the 22nd. Heavy snow fell in the eastern San Juan mountains in the higher elevations. The summit of Wolf Creek Pass picked up 3 inches of snow, and Santa Maria Reservoir had 4 inches of accumulation.									
COZ071-073		Southern El Paso County/Colorado Springs And Vicinity - Pueblo And Eastern Fremont Counties/Pueblo And Vicinity							
	22	0830MST 1000MST			0	0	7K		High Wind (G52)
High winds occurred over the plains adjacent to the mountains in eastern Colorado in the early morning. In downtown Colorado Springs a sign on the Holly Sugar building was damaged. In Canon City, a roof on a mobile home was partially peeled off.									
<u>COLORADO, West</u>									
COZ004>005-009-012-017-019>023		Elkhead And Park Mountains/Flat Tops/White River Plateau - Upper Yampa River Basin/Steamboat Springs And Vicinity - Grand And Battlement Mesas - West Elk And Sawatch Mountains/Taylor Park - Uncompahgre Plateau - Southwestern San Juan Mountains - Paradox Valley/Lower Dolores River - Four Corners/Upper Dolores River/Cortez And Vicinity - Animas River Basin/Durango And Vicinity - San Juan River Basin/Pagosa Springs And Vicinity							
	05 06	0000MST 0700MST			0	0			Winter Storm
A moist southwest flow ahead of a Pacific storm system produced 8 to 12 inches of snow in most mountain areas of western									

Storm Data and Unusual Weather Phenomena

February 1999

									February 1999
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>COLORADO, West</u>									
Colorado. Some lower elevation areas received 6 to 10 inches of snow, especially in the southwest corner of the state. Strong southwest winds in some mountain areas produced blowing and drifting snow.									
COZ012 West Elk And Sawatch Mountains/Taylor Park									
06	1900MST				3	1			Avalanche
	1902MST								
A group of 4 college students were caught in an avalanche which was triggered by one of the skiers while traversing a slope just below the summit on Cumberland Pass, which is about 25 miles east-northeast of Gunnison in the Sawatch Mountain Range. The entire slope at the 12,000 foot elevation fractured 6 feet deep and 1500 feet across and ran 400 vertical feet, scouring the snow along the slope all the way to the ground. The skier who triggered the avalanche was buried next to a tree which provided an air space that was crucial to his survival. The other three students which included a snowmobiler, a snowboarder, and another skier perished under the snow. This was the deadliest avalanche in Colorado since 1988. M19OU, M20OU, M22OU									
COZ001>005-009>010-012-017>019 Lower Yampa River Basin/Rangely And Vicinity - Central Yampa River Basin/Craig-Hayden And Vicinity - Roan And Tavaputs Plateaus - Elkhead And Park Mountains/Flat Tops/White River Plateau - Upper Yampa River Basin/Steamboat Springs And Vicinity - Grand And Battlement Mesas - Gore And Elk Mountains/Central Mountain Valleys/Aspen And Vicinity - West Elk And Sawatch Mountains/Taylor Park - Uncompahgre Plateau - Northwestern San Juan Mountains - Southwestern San Juan Mountains									
10	0500MST				0	0			Winter Storm
11	1800MST								
A Pacific trough produced 6 to 12 inches of snow in the mountains of western Colorado. 6 to 10 inches of snow also fell on the lower elevations of northwest Colorado. The heaviest reported amounts were 14 inches at Powderhorn Ski Area and 13 inches at Steamboat Springs Ski Area. Strong winds in the mountains resulted in blizzard-like conditions. Some peak wind gusts included 88 MPH at the top of Telluride Ski Area, 85 MPH at the top of Steamboat Springs Ski Area, 74 MPH in the mountains near Sunlight Ski Area, 66 MPH on the Tavaputs Plateau, and 65 MPH on the Uncompahgre Plateau.									
COZ010-015 Gore And Elk Mountains/Central Mountain Valleys/Aspen And Vicinity - Leadville And Vicinity									
17	1700MST				0	0			Blizzard
18	0300MST								
Strong winds and heavy snow combined to produce blizzard conditions in some mountain areas of west-central Colorado. Interstate 70 was closed from the Minturn exit eastward beyond Vail Pass. Colorado Highway 24 between Minturn and Leadville as well as Colorado Highway 91 between Copper Mountain Ski Area and Leadville were also closed. Snow drifts of 2 to 3 feet deep developed in some areas. A peak wind gust to 57 MPH occurred at the Leadville airport, while higher gusts were estimated at other locations.									
COZ004-010-015 Elkhead And Park Mountains/Flat Tops/White River Plateau - Gore And Elk Mountains/Central Mountain Valleys/Aspen And Vicinity - Leadville And Vicinity									
21	1200MST				0	0			Winter Storm
22	1900MST								
A moist westerly flow produced 8 to 12 inches of snow in some mountain areas of northwest and west-central Colorado. Some heavier amounts included 14 inches at Cooper Ski Area and 13 inches at Beaver Creek Ski Area. Winds up to the 40 to 50 MPH range produced areas of blowing and drifting snow.									
<u>CONNECTICUT, Northeast</u>									
Hartford County									
Southington	02	2100EST			0	0			Flood
	03	1100EST							
Quinnipiac River									
Low pressure moving from the Carolinas to southern New England brought 1 to 2 inches of rain to northern Connecticut. Very wet antecedent conditions caused significant rises on small streams throughout the region. The Quinnipiac River at Southington rose out of its banks late on the 2nd, producing minor flooding to low lying areas along the river. It crested at 4.17 feet around 3 am on the 3rd, which is less than one foot above its flood stage of 3.5 feet. There were no reports of flood damage.									
CTZ002 Hartford									
	12	1900EST			0	0			Record Warmth
The high temperature of 54 degrees at Bradley International Airport in Windsor Locks, reached during the early evening, tied the record high for the date which was set in 1984.									
CTZ003>004 Tolland - Windham									
	25	0000EST			0	0			Heavy Snow
	26	0000EST							
A strong low pressure system, which passed about 200 miles southeast of Cape Cod, brought heavy snow to Tolland and Windham Counties. Snowfall amounts generally ranged from 6 to 10 inches, with as much as 10.5 inches reported in East Killingly. There were no reports of damage or significant impact from this storm.									

Storm Data and Unusual Weather Phenomena

February 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

CONNECTICUT, Northwest

CTZ001

Litchfield

02 1730EST
2300EST

0 0

Flash Flood/Flood

Mild temperatures and rain produced rapid melting of snow on February 2. This runoff resulted in minor flooding of the East Aspetuck River.

CONNECTICUT, Southern

Fairfield County

Trumbull

02 1500EST

0 0

Heavy Rain

Middlesex County

Middletown

02 1600EST

0 0

Heavy Rain

New London County

Countywide

02 1700EST

0 0

Heavy Rain

New Haven County

Wallingford

02 1751EST
04 0231EST

0 0

Flood

A combination of a nearly stationary warm front lying just southwest of Connecticut and a low pressure system approaching slowly north-northeast along the coast produced heavy rain that caused flash flooding of the Quinnipiac River at Wallingford and isolated flooding of low-lying and poor drainage areas across the rest of Southern Connecticut.

In New Haven County, the Quinnipiac River at Wallingford rose above its' flood stage of 7 feet at 5:51 pm on February 2nd. The river crested at 9.14 feet at 10:46 pm on the 2nd and finally fell below flood stage by 2:31 am on February 4th.

Heavy rain fell across Southern Connecticut. Reported rainfall amounts ranged from 1.28 inches at Stevenson Dam in Fairfield County to 4.02 inches at Oakdale in New London County.

More than 3 inches was reported at several locations:

In Fairfield County, 3.49 inches was reported at Trumbull.

In New Haven County, 3.71 inches was reported at Bethany; 3.29 inches at Woodbridge; 3.07 inches at Seymour; and 3.05 inches at Meriden.

In Middlesex County, 3.62 inches was reported in Middletown.

In New London County, 4.02 inches was reported at Oakdale and 3.77 inches at Norwich.

CTZ008-011>012

Northern New London - Southern Middlesex - Southern New London

25 1400EST
26 0000EST

0 0

Heavy Snow

With a cold high pressure system covering New England, as a strong low pressure system passed east of Long Island, it produced heavy snow.

Light snow began around 1 am on February 25th along coastal New London County and became heavier as it slowly spread west and north across the region. The heaviest snow fell across coastal New London County. Snowfall amounts ranged from around 7 inches at Old Saybrook to 8 inches at Groton.

DELAWARE

DEZ001

New Castle

01 0000EST
02 0900EST

0 0 0 0 Drought

The combination of the recent heavy precipitation during January and the mild temperatures that allowed water to soak into the soil and raise ground water levels permitted the Delaware River Basin Commission to lift their drought warning. The drought warning was in effect north of the Chesapeake and Delaware Canal. While streamflow and ground water levels recovered, they were still below normal for the month of February. February monthly precipitation totals on a county weighted average ranged from normal in New Castle County to around 1 inch (65 to 72% of normal) below normal in both Kent and Sussex Counties.

Kent County

1 W Clayton

12 1730EST

0 1 200K 0 Thunderstorm Wind

Storm Data and Unusual Weather Phenomena

February 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

DELAWARE

A severe thunderstorm destroyed three mobile homes and injured one person on Hollett's Corner near Clayton. The 67-year-old man was injured when he became trapped within his destroyed mobile home. Two other homes were blown off their foundation and a few other mobile homes suffered minor damage. Damage was estimated at \$200,000. Elsewhere across northern Kent County, several trees were knocked down, one electrical pole was knocked down and tree limbs were snapped in a Smyrna Elementary School Playground. An unseasonably warm air mass and a strong cold front conspired to produce a line of strong to locally severe thunderstorms. Preceding this line, high temperatures soared to record breaking levels at both the New Castle County Airport (71 degrees, previous record 61 degrees set in 1898) and Dover Air Force Base (70 degrees, previous record 65 degrees set in 1965).

Sussex County

Georgetown	12	1910EST			0	0	0	0	Thunderstorm Wind (G50)
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A squall line of strong to locally severe thunderstorms moved through Sussex County and knocked down several trees and power lines in and around Georgetown. An unseasonably warm air mass and a strong cold front conspired to produce a line of strong to locally severe thunderstorms across southern Delaware. Preceding this line, the high temperature soared to 70 degrees in Georgetown.

DISTRICT OF COLUMBIA

District Of Columbia

Northeast Portion	12	1630EST			0	0	5K		Thunderstorm Wind
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Brick wall blown over and part of roof blow off building
A strong cold front swept across the region during mid-afternoon on the 12th, accompanied by thunderstorms with damaging wind and a temperature drop of nearly 30 degrees. Washington Reagan National Airport recorded a wind gust of 41 MPH as thunderstorms moved through around 4:15 pm. The strong wind accompanying the storms was blamed for damage in northeast Washington. A brick wall was blown over and a portion of building's roof was blown off in the 11000 block of Bladensburg Road around 4:30 PM.

FLORIDA, East Central

Brevard County

Patrick Afb	28	1515EST			0	0			Thunderstorm Wind (G52)
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Thunderstorm winds produced a wind gust to 60 mph at Patrick AFB.

FLORIDA, Extreme Southern

NONE REPORTED.

FLORIDA, Northeastern

Duval County

Herlong Arpt	12	1435EST			0	0			Hail (0.75)
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Columbia County

Lake City	28	0705EST			0	0	5K		Thunderstorm Wind
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Auto parts store had roof damage.

FLORIDA, Northwest

Gulf County

Beacon Hill	28	0430EST			0	0	200K		Thunderstorm Wind
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Straight-line winds caused scattered damage in the vicinity of Beacon Hill and St. Joe Beach. Two homes received moderate to severe roof damage. A neighboring vehicle was damaged by a fallen power pole. Minor roof and privacy fence damage, as well as a few downed trees in the Beacon Hill and Gulfaire subdivisions. The entrance gate to Beacon Hill Park was damaged. Numerous road signs and markers damaged along Highway 98 in Beacon Hill. At Helmut St. and Highway 98, a vacation home roof and garage were leveled.

FLORIDA, Southern

Broward County

Tamarac	09	1814EST			0	0	0	0	Funnel Cloud
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A sheriff's deputy reported a funnel cloud.

Monroe County

2 E Key West Intl Arpt	10	1538EST			0	0	0	0	Waterspout
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NWS personnel observed a waterspout two miles east of Key West International Airport.

Palm Beach County

Boca Raton	18	0915EST 0923EST	2	10	0	0	0	0	Tornado (F0)
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Storm Data and Unusual Weather Phenomena

February 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

FLORIDA, Southern

Palm Beach County

Boca Raton	18	1005EST 1010EST	1	5	0	0	0	0	Tornado (F0)
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Two brief tornadoes touched down in association with a band of thunderstorms moving from west to east across northern Broward and southern Palm Beach counties. One tornado was first sighted near Glades Road and U.S. 441 and travelled about two miles toward the east northeast before lifting. The other tornado was sighted near Boca Raton Municipal Airport travelling about one mile to the east. No damage was reported with either tornado.

FLORIDA, West Central

FLZ039-042>043-048>052-055>057-060>062-065	Levy - Citrus - Sumter - Hernando - Pasco - Pinellas - Hillsborough - Polk - Manatee - Hardee - Highlands - Sarasota - De Soto - Charlotte - Lee
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04	0300EST 0900EST	0	0	0	0	Fog
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Dense fog reduced visibility to less than one quarter mile over most of West Central and Southwest Florida.

FLZ049>052-055>057-060>062-065	Pasco - Pinellas - Hillsborough - Polk - Manatee - Hardee - Highlands - Sarasota - De Soto - Charlotte - Lee
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07	0300EST	0	0	0	0	Fog
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Dense fog reduced visibility to less than one quarter mile over most of West Central and Southwest Florida.

FLZ039-042>043-048>052-055>057-060>062-065	Levy - Citrus - Sumter - Hernando - Pasco - Pinellas - Hillsborough - Polk - Manatee - Hardee - Highlands - Sarasota - De Soto - Charlotte - Lee
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08	0100EST 0900EST	0	0	0	0	Fog
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Dense fog reduced visibility to less than a quarter mile over parts of West Central and most of Southwest Florida.

FLZ039-042>043-048>052-055>057-060>062-065	Levy - Citrus - Sumter - Hernando - Pasco - Pinellas - Hillsborough - Polk - Manatee - Hardee - Highlands - Sarasota - De Soto - Charlotte - Lee
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09	0100EST 0900EST	0	0	0	0	Fog
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Dense fog reduced visibility to less than a quarter mile over most of West Central and Southwest Florida.

FLZ039-042>043-048>052-055>057-060>062-065	Levy - Citrus - Sumter - Hernando - Pasco - Pinellas - Hillsborough - Polk - Manatee - Hardee - Highlands - Sarasota - De Soto - Charlotte - Lee
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10	0300EST 0900EST	0	0	0	0	Fog
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Dense fog reduced visibility to less than a quarter mile over most of West Central and parts of Southwest Florida.

FLZ039-043-052-056>057-061	Levy - Sumter - Polk - Hardee - Highlands - De Soto
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11	0300EST 0900EST	0	0	0	0	Fog
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Dense fog reduced visibility to less than a quarter mile over parts of West Central Florida.

Levy County

Countywide	14	0500EST 0700EST	0	0	0	0	Freeze
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Temperatures dropped below freezing for up to two hours over the northern half of the county and hour or less over the southern half.

FLZ039-042>043-048>052-055>057-060>062-065	Levy - Citrus - Sumter - Hernando - Pasco - Pinellas - Hillsborough - Polk - Manatee - Hardee - Highlands - Sarasota - De Soto - Charlotte - Lee
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19	0100EST 0900EST	0	0	0	0	Fog
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Dense fog reduced visibility to less than a quarter mile over most of coastal and parts of inland West Central and Southwest Florida.

Storm Data and Unusual Weather Phenomena

February 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

FLORIDA, West Central

FLZ039-042>043-048>052-055>057-060>062-065 **Levy - Citrus - Sumter - Hernando - Pasco - Pinellas - Hillsborough - Polk - Manatee - Hardee - Highlands - Sarasota - De Soto - Charlotte - Lee**

26 **0100EST**
0900EST 0 0 0 0 **Fog**

Dense fog reduced visibility to less than a quarter mile over most of West Central and parts of Southwest Florida.

FLORIDA, West Panhandle

Escambia County

Pensacola Regional 23 **1845CST**
1846CST 0.1 20 0 0 **Tornado (F0)**

A pilot saw a tornado briefly touch down on airport property. No damage was found.

Santa Rosa County

3 W Holley to 23 **1900CST**
1 W Holley 0 0 **Waterspout**

A waterspout was sighted over East Bay moving toward the Holley area. The waterspout dissipated before reaching land.

GEORGIA, East Central

NONE REPORTED.

GEORGIA, Lower

Brantley County

Hoboken 28 **0700EST** 0 0 2.5K **Thunderstorm Wind**

Large trees and power lines were blown down.

GEORGIA, North and Central

GAZ008>009-014>016-023>024 **Union - Towns - Dawson - Lumpkin - White - Hall - Banks**

01 **0000EST**
0900EST 0 0 **Freezing Rain/Sleet**

A mixture of rain, freezing rain, and sleet continued from the afternoon of January 31st into the morning of February 1st. Accumulations were mostly in higher elevations on trees and power lines. Road surface temperatures were generally above freezing, but some icing did occur on bridges and overpasses.

Fulton County

6 SW Sandy Spgs to 09 **1512EST**
6 S Sandy Spgs **1515EST** 0 0 **Hail (0.75)**

The Marietta Fire Department reported dime size hail near I-75 and West Paces Ferry Road. The public reported dime size hail near the governor's mansion on Dumbarton Road in Buckhead.

De Kalb County

1 SW Lithonia 09 **1535EST** 0 0 **Hail (0.75)**

The public reported dime size hail.

De Kalb County

Lithonia 09 **1550EST** 0 0 **Hail (0.75)**

Another public report indicated nickel size hail.

Rockdale County

Conyers to 09 **1615EST**
2 S Conyers **1620EST** 0 0 **Hail (0.75)**

Several public reports indicated dime size hail in Rockdale county. The hail covered the ground in some areas. Also, 2 to 3 inches of rain fell within 30 minutes, according to 2 reports.

Whitfield County

Tunnel Hill 09 **1900EST** 0 0 5K **Lightning**

Lightning caused minor fire damage to a home in Tunnel Hill when it struck a cable line.

Murray County

Chatsworth 10 **0000EST** 0 0 30K **Lightning**

Lightning caused extensive fire damage to a home on Mount Carmel Church Road.

Rockdale County

Conyers 10 **0300EST** 0 0 20K **Lightning**

Storm Data and Unusual Weather Phenomena

February 1999

February 1999									
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
Killed									
Injured									
Property									
Crops									
Character of Storm									
GEORGIA, North and Central									
A lightning strike entered the basement of a house on Reagan Circle, setting a fire. There was extensive smoke damage. One occupant was taken to the hospital, suffering from smoke inhalation.									
GAZ001>009-011-011>016-019>025-027-030>038-041>046-055									
Dade - Walker - Catoosa - Whitfield - Murray - Fannin - Gilmer - Union - Towns - Chattooga - Gordon - Pickens - Dawson - Lumpkin - White - Floyd - Bartow - Cherokee - Forsyth - Hall - Banks - Jackson - Madison - Polk - Paulding - Cobb - North Fulton - Gwinnett - Barrow - Clarke - Oconee - Oglethorpe - Haralson - Carroll - Douglas - South Fulton - De Kalb - Rockdale - Clayton									
23 1100EST 0 0 Snow									
24 0600EST									
A mixture of light rain and snow began over northwest Georgia by late morning on Feb 23, and gradually spread eastward during the afternoon. A winter weather advisory was issued for the counties along and north of a line from Polk to White counties. The advisory eventually was expanded by early in the morning of the 24th to include counties as far south as Carroll to Clayton to Oglethorpe. Temperatures were in the upper 30s to mid 40s, so the snow did not stick at first. As temperatures slowly fell into the upper 20s to lower 30s, snow began accumulating in patchy areas. One to two inches of snow accumulated over much of north Georgia before the precipitation ended before daybreak on the 24th. There were spotty 3 inch amounts in higher elevations. Accumulation was mainly on grassy areas and metal surfaces.									
Floyd County									
Rome to 4 S Rome 27 2140EST 0 0 30K Thunderstorm Wind									
2150EST									
A HAM radio operator reported a tree down on a house in Rome. Floyd county 911 reported trees down on Pleasant Valley Road in the Silver Creek area. They also reported damage to the roof of a theater in Rome.									
Haralson County									
Countywide 27 2140EST 0 0 25K Thunderstorm Wind									
2150EST									
Haralson county 911 reported trees and power lines knocked down across the county by thunderstorm winds. A HAM radio operator reported numerous trees down in the area east and northeast of Buchanan.									
Polk County									
Cedartown to Rockmart 27 2157EST 0 0 20K Thunderstorm Wind									
2205EST									
Polk county 911 reported several trees blown down. A tree was knocked onto a church on Antioch Road in Cedartown. A HAM radio operator reported many trees down on Davis Road near Rockmart.									
Paulding County									
New Hope 27 2215EST 0 0 Hail (1.00)									
The public reported quarter size hail or larger. A tree was also reported blown down in Dallas.									
Carroll County									
Villa Rica 27 2220EST 0 0 Hail (0.75)									
The public reported less than one inch size hail...probably around dime size.									
Douglas County									
Douglasville 27 2230EST 0 0 1K Thunderstorm Wind									
Douglas county 911 reported a tree and power line blown down by thunderstorm winds.									
Bartow County									
Allatoona 27 2235EST 0 0 Hail (1.00)									
The public reported 1 inch hail in Bartow county near Acworth in Cobb county.									
Cobb County									
Kennesaw to Smyrna 27 2239EST 0 0 Hail (1.00)									
2240EST									
A couple of public reports indicated nickel to quarter size hail fell in Cobb county. A large tree fell on a swing set in Austell, cutting it in half.									
Cherokee County									
Woodstock 27 2240EST 0 0 Hail (1.50)									
2250EST									
Public reports indicated hail from dime size to 11/2 inches in diameter.									
Bartow County									
Cartersville 27 2245EST 0 0 1K Thunderstorm Wind									
Bartow county 911 received 3 calls on trees blow down.									
De Kalb County									
La Vista 27 2245EST 0 0 1K Thunderstorm Wind									

Storm Data and Unusual Weather Phenomena

February 1999

									February 1999
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage	Crops	Character of Storm
<u>GEORGIA, North and Central</u>									
DeKalb county 911 reported trees knocked down by thunderstorm winds on LaVista and Briarcliff Roads.									
Troup County									
La Grange	27	2254EST			0	0	1K		Thunderstorm Wind
Troup county 911 received reports of several trees down and power outages.									
Cherokee County									
Greeley to Woodstock	27	2255EST 2300EST			0	0	10K		Thunderstorm Wind
Cherokee county 911 reported trees down on Hickory Flat highway and Salacoa Road near the Bartow county line. A public report indicated many trees down in a pasture near Woodstock. There was also a report of power lines knocked down.									
Clayton County									
3 W Jonesboro	27	2308EST			0	0			Thunderstorm Wind (G52)
A HAM radio operator reported a measured wind speed of 60 mph.									
Fulton County									
Atlanta	27	2308EST			0	0	10K		Thunderstorm Wind
Fulton county 911 reported trees down and power outages at Old Fairburn Road and Phaxton Road, and also at Powers Ferry and Northside Drive.									
Fayette County									
Peachtree City	27	2312EST			0	0			Hail (1.00)
The public reported 1 inch diameter hail.									
Forsyth County									
5 W Cumming	27	2315EST			0	0	1K		Thunderstorm Wind
Forsyth county 911 reported trees down west of Cumming near the Cherokee county line.									
Gwinnett County									
Lilburn	27	2315EST			0	0	10K		Thunderstorm Wind
A newspaper report indicated a tree fell on a house on Jennings Way off Jimmy Carter Blvd, and a tree fell on a car at Arbor Drive and Breckenridge.									
Meriwether County									
Countywide	27	2330EST			0	0	10K		Thunderstorm Wind
Meriwether county 911 reported trees and power lines down countywide. A mobile home was damaged 10 miles east of Greenville.									
Pike County									
Williamson	27	2340EST			0	0	1K		Thunderstorm Wind
Pike county 911 reported trees down in the north end of the county near Williamson.									
Spalding County									
Griffin	27	2350EST			0	0	1K		Thunderstorm Wind
Spalding county 911 reported power lines were blown down.									
<u>GEORGIA, Northeast</u>									
GAZ017 Habersham									
	01	0000EST 0600EST			0	0			Ice Storm
Cold air wedged into northeast Georgia at the surface, caused precipitation to fall as freezing rain. The freezing rain accumulated to damaging levels in Habersham county where many trees and power lines fell. Most of the damage was in Cornelia, but enough trees fell throughout the county to cause significant utility disruptions.									
GAZ010-018-026 Rabun - Stephens - Franklin									
	01	0000EST 0600EST			0	0			Freezing Rain
Moisture flowing north over a dome of sub-freezing surface air across northeast Georgia, caused precipitation to fall as freezing rain. A light accumulation of ice accrued up to 1/8 inch, mainly on trees, during the early morning hours.									
GAZ010-017>018-026-028>029 Rabun - Habersham - Stephens - Franklin - Hart - Elbert									
	24	0000EST 0600EST			0	0			Snow
A weak surface low and associated upper air disturbance combined to provide just enough lift to produce light snow across northeast Georgia early on the 24th. Most areas received only a trace to one inch. However, there was one band of accumulations between 2 and 3 inches that occurred across parts of Hart and Elbert counties. Roads became very slick, even where only 1/2 inch of snow fell, resulting in numerous traffic accidents.									

Storm Data and Unusual Weather Phenomena

February 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

GEORGIA, Southeast

NONE REPORTED.

GEORGIA, Southwest

NONE REPORTED.

GEORGIA, West Central

GAZ089

Muscogee

01	0000EST	0	0	0	0	Drought
28	2359EST					

The monthly rainfall for February was 1.77 inches. That amount tied for the fifth lowest monthly total for February ever recorded.

HAWAII

HIZ001>006

Kauai - Oahu - Maui - Island Of Hawaii - Molokai - Lanai

01	0000HST	0	0			High Surf
	2030HST					

Swell from the north of the Hawaiian Islands produced surf of 4 to 6 feet along north shores.

HIZ004

Island Of Hawaii

01	0000HST	0	0			Light Snow
	0730HST					

Snow showers were observed over the summit, which led to the closing of the road to the Mauna Kea summit.

HIZ001>006

Kauai - Oahu - Maui - Island Of Hawaii - Molokai - Lanai

02	2030HST	0	0			High Surf
05	2030HST					

An increasing trade wind swell produced surf of 6 to 10 feet along east shores of all the Hawaiian islands.

HIZ001>006

Kauai - Oahu - Maui - Island Of Hawaii - Molokai - Lanai

03	0830HST	0	0			High Surf
04	2030HST					

A storm that passed to the north of the Hawaiian islands generated large swells from 10 to 15 feet along north shores, and 4 to 6 feet along west shores of the islands.

HIZ003

Maui

03	1100HST	0	0			High Wind (G59)
04	0400HST					

High winds toppled eucalyptus trees near Seabury Hall and along Kaupakalua Road. A large tree near Seabury Hall broke two power poles, leaving 125 customers in the Olinda area along Piihola Road without electrical service. Another falling eucalyptus tree was blamed for snapping conductor wires along Kaupakalua Road that affected about 50 homes in that area and Kokomo. At 8:00 pm at Haleakala, the peak gust was 68 mph and the highest sustained wind speed was 48 mph.

HIZ001>006

Kauai - Oahu - Maui - Island Of Hawaii - Molokai - Lanai

08	1200HST	0	0			High Surf
09	0400HST					

An open ocean swell from a storm near Japan generated surf of 8 to 12 feet along north shores of the Hawaiian islands.

HIZ001>006

Kauai - Oahu - Maui - Island Of Hawaii - Molokai - Lanai

12	0415HST	1	0			High Surf
14	0830HST					

Two separate storm systems-one near Japan and one near the Gulf of Alaska-produced 8 to 12-foot surf along many north-facing beaches of the Hawaiian Islands.

On Oahu, a Marine's (military) body was never found after a four-day search at sea. He had been walking on a rocky ledge at the Mokulua islands (a mile offshore from Lanikai) when a wave knocked him into the ocean on 12 February. M21IW

HIZ001>006

Kauai - Oahu - Maui - Island Of Hawaii - Molokai - Lanai

16	0300HST	0	0			High Surf
18	0830HST					

An intense storm south and east of New Zealand caused surf of 6 to 10 feet along south shores of all Hawaiian Islands. The New Zealand storm on 10 February had 50-knot winds and was 5,400 miles south of Hawaii, moving from Antarctica toward South America. On Oahu, high surf tore loose a navigational buoy marking the Ala Wai Boat Harbor channel. Lifeguards reported 20 rescues-mostly in the Waikiki area. A veteran surfer at Black Point reported that he was among about 25 surfers that were riding waves up to 20 feet on the morning of 16 February.

Storm Data and Unusual Weather Phenomena

February 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

HAWAII

HIZ001>006

Kauai - Oahu - Maui - Island Of Hawaii - Molokai - Lanai

16 0830HST
19 1200HST

0 0

High Surf

Swells from a storm far northwest of the Hawaiian Islands caused surf of 6 to 10 feet along the north and west shores of the islands.

Hawaii County

**Hawi to
Halaula**

20 0515HST
2000HST

0 0

Urban/Sml Stream Fld

Heavy showers, over the district of North Kohala, caused widespread flooding of low lying areas and landslides. A landslide in the Kapa'au area caused a boulder to block half of highway 270 at mile marker 24.

Hawaii County

**Honokaa to
Pahala**

20 0815HST
2000HST

0 0

Urban/Sml Stream Fld

Minor flooding and small debris on roads were observed for this event, including ponding of water in low-lying areas.

Hawaii County

**Honokaa to
Hilo**

20 1830HST
22 0750HST

0 0

Urban/Sml Stream Fld

Upper level trough and moist unstable airmass produced heavy rain that caused minor flooding along the island's entire east coast. There were crop damages due to runoff and erosion, including pot holes on roads. Bayfront soccer field was flooded with water from the overflow of Alenaio flood channel.

The total amount of rainfall for this event is as follows:

WSO Hilo	11.03 in.
Waiakea Uka	9.43 in.
Mt. View	9.80 in.
Pahoa	10.18 in.
Keaau	13.26 in.

HIZ002

Oahu

20 2025HST

0 0

Dust Devil

A house in Nanakuli sustained wind damage from what appeared to be a huge dust devil or vortex of strong winds. The foundation of the house was lifted off and twisted, while nearby homes were barely touched. There was a lot of debris in the air.

HIZ004

Island Of Hawaii

21 1430HST
22 1000HST

0 0

Heavy Snow

Upper level trough and moist unstable airmass produced heavy snow that fell over the summits of Mauna Kea and Mauna Loa. Snow depth of 5 to 6 inches was reported by UH-Hilo personnel.

HIZ002

Oahu

25 2200HST
26 1600HST

1 0

High Surf

A fisherman was reported missing on the night of 25 February, but his body was later found on 26 February at 4:00 pm on the north side of Kaena Point. Police reported that the victim went in his boat, and it apparently capsized because of rough water. Surf was from 4 to 6 feet along north shores.

M55BO

HIZ001>006

Kauai - Oahu - Maui - Island Of Hawaii - Molokai - Lanai

26 1200HST
28 2359HST

0 0

High Surf

A deep storm that passed far to the north of the Hawaiian islands generated large surf from 20 to 25 feet on 16 February, along north shores of some of the islands.

On Oahu, water was observed across low-lying sections of the road at Laniakea. A house at KeWaena Road was flooded with water, and the family left for a nearby shelter at Sunset beach school. There was a report of debris across the road from Laniakea to Sunset Beach, which was deposited by very high surf along the north shore.

IDAHO, Extreme Southeast

NONE REPORTED.

Storm Data and Unusual Weather Phenomena

February 1999

February 1999										
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm	
IDAHO, North										
IDZ005>006	Northern Clearwater Mountains - Southern Clearwater Mountains									
	01	1530MST			0	0			Heavy Snow	
	02	1515MST								
	Hemlock Peak-13 inches new snow									
	Pierce-6 inches new snow									
	Cottonwood-8 inches new snow									
	Lolo Pass-11 inches new snow									
	IDZ005>006-009>010									
	Northern Clearwater Mountains - Southern Clearwater Mountains - Western Lemhi County - Eastern Lemhi County									
IDZ005>008	06	0400MST			0	0			Winter Storm	
	07	1530MST								
	Saddle Mountain-7 inches new snow									
	Elk Butte-6 inches new snow									
	Meadow Lake-15 inches new snow									
	Kriley Creek-51 mph winds									
	IDZ005>008									
	Northern Clearwater Mountains - Southern Clearwater Mountains - Orofino / Grangeville Region - Lower Hells Canyon / Salmon River Region									
	IDZ005>006	09	1250MST			0	0			Heavy Snow
		2115MST								
Powell-8 inches new snow										
Grangeville-11 inches new snow										
Moonshine-12 inches new snow										
IDZ005>006										
Northern Clearwater Mountains - Southern Clearwater Mountains										
IDAHO, Northwest		23	0200MST			0	0			Heavy Snow
		24	1200MST							
	Lookout-10 inches of new snow									
	Cool Creek-8 inches of new snow									
	Hemlock Butte-20 inches of new snow									
	Elk Butte-15 inches of new snow									
	Shanghai Summit- 10 inches of new snow									
	IDAHO, Northwest									
	IDZ001-003-027	Northern Panhandle - Idaho Palouse - Lewis And Southern Nez Perce								
02		0600PST			0	0			Heavy Snow	
28		1100PST								
Heavy snow of 6-15" each day was reported across portions of north Idaho. Some of the sites included: Sandpoint, Potlatch, St. Maries, Kellogg and Winchester. The heavy snow caused hazardous driving conditions and several accidents on area roadways.										
Coeur D'Alene Area - Idaho Palouse - Central Panhandle Mountains - Lewiston Area										
02		1100PST			0	0	3M		High Wind	
		1700PST								
Strong winds of 30-40 mph with gusts of 60-70 mph ripped through portions of north Idaho, causing countless trees to be blown down along with roof and building damage.										
IDZ001		Northern Panhandle								
		06	0200PST			0	5			Winter Storm
	07	0400PST								
	A combination of heavy snow and gusty winds produced white-out conditions upon Schwietzer Mountain which lead to the disappearance of 5 skiers. They were found 24 hours later with minor injuries.									
	Benewah County									
	Tensed	24	0030PST			0	0	250K	Flood	
		25	0900PST							
	Heavy rain caused Hangman Creek to flood.									
	Latah County									
Troy to Juliaetta		24	0100PST			0	0	1M	Flood	
		25	0900PST							
A combination of rapid snowmelt and heavy rain caused small streams to flood and roadways to pool with water especially across southern Latah County.										
IDZ004		Central Panhandle Mountains								
		25	2100PST			0	0	20K		Avalanche
			2330PST							

Storm Data and Unusual Weather Phenomena

February 1999

									February 1999
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage	Crops	Character of Storm
IDAHO, Northwest									
An avalanche on Jackass Ridge buried roads in the area.									
IDAHO, Southeast									
IDZ019									
Upper Snake Highlands									
02	1500MST				0	0			Heavy Snow
03	0800MST								
Heavy snow fell over the Teton basin and Henrys Lake area in the Targhee National Forest. Island Park reported 14 inches accumulation. Victor in Teton county reported 5 inches accumulation.									
IDZ018>019-022>023-031>032									
Sawtooth Mountains - Upper Snake Highlands - South Central Highlands - Caribou Highlands - Big And Little Wood River Region - Lost River / Pahsimeroi									
06	0930MST				0	0	40K		Winter Storm
07	1200MST								
A winter storm brought widespread heavy snow to the mountains of Eastern Idaho. Elevations above 6000 feet in the area including Sun Valley, the Stanley Basin to Island Park and the Teton Basin, reported 8 to 13 inches accumulation. Lower elevations in this area reported 6 to 8 inches accumulation. The highest accumulation reported was 13 inches at Ketchum. Other communities reporting notable accumulation were Sun Valley with 9 inches, Spencer with 10 inches, Island Park with 9 inches and Arco with 6 inches. Numerous state highways were closed during the storm from blowing and drifting snow as sustained wind speeds reached 30 to 40 mph. Poor visibilities caused numerous minor vehicle accidents. The mountains of Southeast Idaho also reported heavy snow with accumulation of 6 to 7 inches at locations like Soda Springs and Malad.									
IDZ018>019-023-031>032									
Sawtooth Mountains - Upper Snake Highlands - Caribou Highlands - Big And Little Wood River Region - Lost River / Pahsimeroi									
09	0500MST				0	0	40K		Winter Storm
10	0400MST								
Bingham County									
3 S Pingree									
09	1735MST				0	0	10K		Thunderstorm Wind (G60)
Bonneville County									
6 NE Idaho Falls									
09	1845MST				0	0			Thunderstorm Wind (G60)
A winter storm brought widespread heavy snow to the mountains of Eastern Idaho. Accumulation was generally reported in the 6 to 8 inch range, including at the towns of Arco, Soda Springs, Carey and Spencer. Higher accumulation of up to 12 inches were reported in Sun Valley and the Stanley Basin. Icy roads resulted in numerous slide offs, including more than 30 along I-84 alone. One accident due to icy roads resulted in two fatalities. The strong cold front that accompanied this storm helped trigger rare winter thunderstorms. Winds from one thunderstorm tore the roof off of a mobile home and twisted farm irrigation piping, near Pingree 12 miles southwest of Blackfoot. Thunderstorm wind also tore the roof off of a farm lambing shed near Idaho Falls.									
IDZ019-031									
Upper Snake Highlands - Big And Little Wood River Region									
16	1700MST				0	0	120K		Heavy Snow
17	1700MST								
Heavy snow fell in the higher elevations from the Sawtooth to the Big Hole Mountains. Accumulation of 6 to 12 inches were reported above 7000 feet; while widespread accumulation of up to 3 inches were reported at lower elevations. The high property damage costs associated with this storm occurred when over a mile of 80' high transmission lines were knocked over from heavy snow and wind in Cassia county.									
IDZ018>019									
Sawtooth Mountains - Upper Snake Highlands									
18	1100MST				0	0			Heavy Snow
19	0300MST								
Heavy snow fell at the higher elevations from the Sawtooth Mountains to the Upper Snake Highlands. Accumulation of 6 to 8 inches were reported at Stanley and Island Park.									
IDZ018>019-031>032									
Sawtooth Mountains - Upper Snake Highlands - Big And Little Wood River Region - Lost River / Pahsimeroi									
21	0500MST				0	0			Winter Storm
22	0700MST								
A winter storm brought heavy snow from the Sawtooth mountains and Sun Valley to the Teton Basin. Accumulation of 8 to 10 inches were reported at Ketchum, Arco and Ashton. Many state highways in this region were closed due to blowing and drifting snow.									
IDZ019									
Upper Snake Highlands									
25	2200MST				0	0			Heavy Snow
26	0600MST								
Heavy snow fell from Teton Basin to Henrys Lake. Accumulation 6 to 8 inches were reported at Victor and Island Park.									

Storm Data and Unusual Weather Phenomena

February 1999

									February 1999
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Killed	Injured	Estimated Damage Property	Crops	Character of Storm
IDAHO, Southwest									
IDZ012>013		Lower Treasure Valley - Boise Mountains							
	02	0800MST 1400MST			0	0			Heavy Snow
IDZ014		Upper Treasure Valley							
	02	0800MST 1400MST			0	0			Winter Storm
During the day on February 2nd a winter storm snarled traffic in the Treasure Valley and brought local heavy snow to the Lower Treasure Valley and the Boise Mountains. In the Upper Treasure Valley 3 to 4 inches of snow fell and caused major traffic disruptions. Over 100 auto accidents were reported around Boise. In the Lower Treasure Valley 3 to 5 inches of snow fell with a local report of 7 inches at Midvale. In the Boise Mountains Placerville received 6 inches of new snow.									
IDZ011-013-028>029		West Central Mountains - Boise Mountains - Camas Prairie - Owyhee Mountains							
	06	0300MST 1700MST			0	0			Heavy Snow
Light snow fell over the mountains of southwest Idaho for most of the day on February 9th. The snow added up to heavy amounts at many locations. In the Boise Mountains Centerville received 5 inches. In the West Central Mountains 14 inches fell near Council and 9 inches fell at Smith's Ferry. On the Camas Prairie 5 to 6 inches fell at Fairfield and in the Owyhee Mountains Silver City received 10 inches.									
IDZ011-013-028>029		West Central Mountains - Boise Mountains - Camas Prairie - Owyhee Mountains							
	08 09	1500MST 1300MST			0	0			Heavy Snow
A large and slow moving winter storm brought heavy snow to the mountains of southwest Idaho. In the Owyhee Mountains Silver City received 11 inches. In the West Central Mountains New Meadows received 12 inches and and McCall reported 10 to 12 inches. In the Boise Mountains Idaho City received 12 inches and Placerville picked up 7 to 8 inches. On the Camas Prairie Fairfield reported 14 inches of snow.									
IDZ030		Southern Twin Falls County							
	09	1800MST 2200MST			0	0			Winter Storm
Freezing rain, light snow and gusty winds produced hazardous driving conditions in Southern Twin Falls County. About 30 minor auto accidents and slide offs occurred and authorities had to close Interstate 84 for a few hours.									
IDZ011-013-029		West Central Mountains - Boise Mountains - Owyhee Mountains							
	16 17	2000MST 0500MST			0	0			Heavy Snow
A winter storm deposited 10 inches of new snow at Silver City in the Owyhee Mountains. In the West Central Mountains 6 inches fell at Cascade with 11 inches at Deadwood. In the Boise Mountains Placerville received 10 inches of new snow.									
IDZ016		Western Magic Valley							
	17	2000MST 2030MST			0	0	50K		High Wind (G54)
A strong cold front swept through the Western Magic Valley with winds clocked to 62 mph at the Twin Falls Airport. The strong winds toppled two sixty foot tall pine trees and destroyed the roof of a barn near Buhl. In Twin Falls the roof of a school was damaged and a manufactured home was blown over.									
IDZ013-028		Boise Mountains - Camas Prairie							
	18	0600MST 2000MST			0	0			Heavy Snow
Heavy snow fell over Idaho's Boise Mountains with 6 to 8 inches of new snow at Idaho City. Placerville and Centerville received 6 inches. Heavy snow also fell on the Camas Prairie with Fairfield picking up 6 to 8 inches. Soldier Mountain received 8 inches.									
IDZ011-013-028>029		West Central Mountains - Boise Mountains - Camas Prairie - Owyhee Mountains							
	21	0000MST 1200MST			0	0			Heavy Snow
A winter storm dumped heavy snow on the mountains of south western Idaho. In the West Central Mountains Smith's Ferry and Cascade received 6 inches of snow. In the Boise Mountains 8 inches fell at Lowman and 5 to 6 inches fell at Centerville. On the Camas Prairie 6 inches fell at Fairfield. In the Owyhee Mountains Silver City received 8 to 10 inches.									
IDZ011-013-029		West Central Mountains - Boise Mountains - Owyhee Mountains							
	23	0400MST 1300MST			0	0			Heavy Snow
A winter storm dumped heavy snow upon the mountains of southwest Idaho. In the West Central Mountains Smith's Ferry received									

Storm Data and Unusual Weather Phenomena

February 1999

February 1999									
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage	Crops	Character of Storm
IDAHO, Southwest									
10 inches of snow and Deadwood measured 8 inches. In the Boise Mountains Centerville received 10 inches with Lowman picking up 8 inches and Crouch 11 inches. In the Owyhee Mountains Silver City received 10 inches of new snow.									
ILLINOIS, Central									
ILZ051									
Sangamon									
11	1425CST				0	0	5K		High Wind
	1500CST								
Strong gradient winds caused isolated damage in Sangamon County. In Auburn, a railroad car was blown off the tracks and in Springfield there was some minor roof damage to the Illinois Supreme Court Building. Damage was estimated around \$5,000.									
Scott County									
Glasgow to Alsey	11	1425CST			0	0			Thunderstorm Wind (G63)
		1432CST							
A severe thunderstorm quickly moved northeast across Scott County. Numerous power poles in the Glasgow area were blown down. Five miles north of Alsey several trees were blown down, a shed was destroyed, and two homes sustained minor damage. One mile south of Winchester, several buildings sustained minor damage. No injuries were reported.									
Cass County									
Beardstown	11	1428CST			0	0	0		Thunderstorm Wind
Several trees were blown down in Beardstown.									
Morgan County									
Lynnville to Jacksonville	11	1430CST			0	1	0		Thunderstorm Wind
		1440CST							
As a severe thunderstorm moved through the area, a greenhouse in Lynnville was destroyed. In Jacksonville, four businesses sustained major roof damage and a window in a restaurant was blown in causing one minor injury from flying glass. Throughout the county, several sheds were either damaged or destroyed, numerous trees and power poles blown down, and a chimney was blown off of a house.									
Tazewell County									
3 SW Delavan to 2 NE Morton	11	1523CST			0	6	40K		Thunderstorm Wind (G51)
		1545CST							
Widespread damage occurred in Tazewell County. As the severe thunderstorm moved northeast across the county, it took the roof off of a corn crib and flipped over an irrigation rig 3 miles southwest of Delavan then blew the roof off of a house in Delavan. In South Pekin, around a dozen power poles were blown down and six miles south of Tremont the tops of numerous trees were torn off and a swing set was blown over. Two miles northeast of Morton, 6 semis were blown over on I-74 causing 6 minor injuries. Also, in Tremont a semi was blown over on Route 9 near the interchange with I-155. No injuries occurred with this incident. Countywide numerous trees were blown over and several sheds, barns, and outbuildings were either damaged or destroyed. Damage to two of the semis that were blown over is estimated around \$40,000.									
McLean County									
2 SW Bloomington to Bloomington	11	1600CST			0	0	0		Thunderstorm Wind
		1610CST							
A semi was blown over at the I-55/I-74 interchange on the southwest side of Bloomington. No injuries were reported. Also, a large tree was blown over across Veterans Parkway.									
Woodford County									
1 W Minonk	11	1600CST			0	0	0		Thunderstorm Wind
A semi was blown over by thunderstorm winds on I-39 just west of Minonk. No injuries reported.									
Shelby County									
Shelbyville to Stewardson	11	1627CST			0	0	0		Thunderstorm Wind
		1640CST							
In Shelbyville, numerous power poles were blown down. In Stewardson, one roof of a home was completely ripped off as well as several porch roofs. No injuries were reported.									
Champaign County									
Ivesdale to Champaign	11	1650CST			0	0			Thunderstorm Wind (G52)
		1700CST							
In Ivesdale, a garage was blown 20 feet off its foundation. Three miles south of Champaign, several trees and power poles were blown down. Also, 3 houses sustained siding damage and a motor home was blown over. In Champaign, part of the roof of the YMCA was damaged and railroad crossing arms were broken at 2 crossings. No injuries reported and no damage estimate was available.									
Coles County									
Mattoon to Coles Co Mem Arpt	11	1657CST			0	0			Thunderstorm Wind (G67)
		1705CST							

Storm Data and Unusual Weather Phenomena

February 1999

February 1999									
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
Killed	Injured	Property	Crops						
ILLINOIS, Central									
Several power poles were blown down in Mattoon.									
Edgar County									
5 W Paris to Paris	11	1740CST 1745CST			0	0		0	Thunderstorm Wind
Numerous power poles and power lines were blown down.									
Vermilion County									
1 N Fithian to Hoopeston	11	1740CST 1750CST			0	1		0	Thunderstorm Wind
A semi was blown over on I-74 just north of Fithian. The driver sustained minor injuries. In Danville, several windows on a business were broken and in Hoopeston several power poles were blown down.									
Coles County									
2 N Lerna to Charleston	27	1240CST 1300CST			0	0			Hail (1.00)
Cumberland County									
Toledo	27	1335CST			0	0			Hail (1.75)
Edgar County									
Hume	27	1335CST			0	0			Hail (1.75)
The hail caused some minor damage to a few homes and vehicles in the Hume area.									
Effingham County									
3 W Effingham	27	1337CST			0	0			Hail (1.00)
Effingham County									
Watson	27	1407CST			0	0			Hail (1.75)
Clay County									
5 NW Flora to Flora	27	1436CST 1440CST			0	0			Hail (1.00)
Richland County									
Olney to 1 N Parkersburg	27	1500CST 1510CST			0	0		0	Thunderstorm Wind
Several large trees were blown down in Olney. One mile north of Parkersburg, a trailer home sustained minor damage and a shed was destroyed.									
ILLINOIS, Northeast									
Lee County									
Dixon	11	1400CST			0	0			Thunderstorm Wind (G52)
A tree blew down on a house in Dixon. A wind gust to 60 mph was reported at Compton Airport.									
Ogle County									
Byron	11	1420CST			0	0			Thunderstorm Wind (G50)
Tree limbs and wires were downed near Byron and Mt. Morris.									
Winnebago County									
Rockford	11	1430CST			0	0			Thunderstorm Wind (G59)
Tree limbs and power lines were downed in Rockford, Loves Park and New Milford. A trailer was crushed by a falling tree.									
Boone County									
Poplar Grove	11	1445CST			0	0			Thunderstorm Wind (G50)
A maintenance building at highway 76 and 173 was damaged by thunderstorm winds.									
De Kalb County									
De Kalb	11	1445CST			0	0			Thunderstorm Wind (G50)
Trees were blown down.									
Mchenry County									
Woodstock	11	1500CST			0	0			Thunderstorm Wind (G50)
Shingles were blown off a house and tree limbs were blown down in Woodstock and Lake in the Hills.									
Kankakee County									
Aroma Park	11	1545CST			0	0			Thunderstorm Wind (G50)
A storage building was damaged in Aroma Park. The roof of an industrial building was damaged in Bradley.									

Storm Data and Unusual Weather Phenomena

February 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

ILLINOIS, Northeast

Will County

Peotone 11 1550CST 0 0 **Thunderstorm Wind (G50)**

A greenhouse was damaged at Peotone. Tree limbs and power lines were blown down in Monee.

ILZ023-033

Kankakee - Iroquois

11 1600CST 0 0 **High Wind (G59)**
1700CST

Very strong winds occurred in the wake of a small line of thunderstorms. Trees were blown down around Watseka and a barn was damaged in the southwest part of Iroquois County. The brick facade of a building was blown down in Watseka. A wind gusts of 68 mph was recorded in Watseka at 410 pm and 66mph was recorded by an observer in Bonfield at 427 pm. These wind gusts may have been stronger than the winds that occurred in thunderstorms about 30 to 60 minutes earlier.

ILLINOIS, Northwest

Whiteside County

South Portion 01 1305CST 0 0 **Flash Flood**
2300CST

Unusually warm late January weather caused an early snowmelt along the Rock River in Northwest Illinois. As the river rose an ice jam developed along a tight bend in the river and forced water over portions of route 78 between Prophetstown and Lyndon.

Hancock County

Carthage 11 1246CST 0 0 **Thunderstorm Wind (G52)**
1254CST

Jo Daviess County

Elizabeth 11 1322CST 0 2 **Thunderstorm Wind (G58)**

Jo Daviess County

Woodbine to Warren 11 1325CST 0 0 40K **Thunderstorm Wind (G70)**

Jo Daviess County

Stockton 11 1337CST 0 1 **Thunderstorm Wind (G55)**

Stephenson County

Dakota 11 1346CST 0 0 **Thunderstorm Wind (G52)**

Whiteside County

Sterling 11 1402CST 0 1 28K **Thunderstorm Wind**
1433CST

Whiteside County

Sterling Arpt 11 1402CST 0 0 **Thunderstorm Wind (G58)**

An intensifying squall line ahead of a strong cold front sent severe thunderstorms racing across Eastern Iowa and Northwest Illinois. Widespread damage from high winds and hail was reported across Southeast Iowa into Northwest Illinois as the storms moved northeast. Several high profile vehicles were overturned by the strong winds, and many downed trees, damaged homes, and farm buildings were reported. In Jo Daviess County two people were injured when the roof was blown off their home, and another man sustained injuries when the semi he was driving was blown over. In Whiteside County one student was injured when strong winds tore a portion of roof off a high school.

ILLINOIS, South

ILZ087-090>094

Gallatin - Pope - Hardin - Alexander - Pulaski - Massac

01 0001CST 0 0 30K **Flood**
17 1800CST

The Ohio River remained well above flood stage into early February. The river crested at Shawneetown in late January, but did not crest from Golconda downriver to Cairo until the first few days of February. At Golconda, where flood stage is 40 feet, the crest was 45.38 feet. At Brookport, where flood stage is 37 feet, the crest was 46.50 feet. At Grand Chain, where flood stage is 42 feet, the crest was 51.10 feet. Cairo crested at 49.47 feet, nearly 10 feet over flood stage. All points fell below flood stage by mid month. The crests between 5 and 10 feet over flood stage produced minor to moderate flooding. The primary affected areas were agricultural bottomlands. Roads and parks along the river were also affected, including Fort Massac State Park in Metropolis. At Cairo, a stage of 50 feet prompts the closure of the first flood gate.

ILZ081-084

Franklin - Jackson

01 0001CST 0 0 6K **Flood**
21 0800CST

The Big Muddy River remained above flood stage at Murphysboro from late January through much of February. The flooding was generally minor, affecting uninhabited agricultural and recreational areas. A few houses just downstream of Bridge Street were affected. The crest at Murphysboro was 25.76 feet on the 12th, which is about 10 feet above flood stage. Upriver at Plumfield, the river crested about 2 feet above the 20-foot flood stage on the 10th.

Storm Data and Unusual Weather Phenomena

February 1999

									February 1999
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage	Crops	Character of Storm
ILLINOIS, South									
ILZ083		White							
	01 24	0001CST 1700CST			0	0	3K		Flood
	The Little Wabash River, which experienced serious flooding in late January, receded slowly during February. The Little Wabash finally fell below flood stage at Carmi on the 24th.								
ILZ076		Wayne							
	01 03	0200CST 0900CST			0	0	2K		Flood
	The Skillet Fork River rose above flood stage for a couple of days in response to heavy rain over central Illinois. At Wayne City, where flood stage is 15 feet, the crest was 17.03 feet, which caused minor flooding of low-lying and agricultural areas.								
ILZ075>078-080>082-084-087-089>094-165-181-193-199		Jefferson - Wayne - Edwards - Wabash - Perry - Franklin - Hamilton - Jackson - Gallatin - Johnson - Pope - Hardin - Alexander - Pulaski - Massac							
	07	0230CST 0345CST			0	0	23K		Strong Winds
	Strong winds ahead of an approaching cold front gusted to 55 MPH at times across all of southern Illinois. These winds were sufficient to bring down some tree limbs and even a few rotted or older trees. In McLeansboro in Hamilton County, a tree fell on a nursing home and damaged the roof. In Massac County, damage occurred at Joppa High School, where a light pole at the baseball field became airborne and penetrated the roof of the school.								
ILZ076		Wayne							
	07 10	0400CST 0800CST			0	0	3K		Flood
	Heavy rain over central Illinois caused the Skillet Fork to rise above flood stage for a couple of days. At Wayne City, where flood stage is 15 feet, the crest of 17.92 feet produced only minor flooding of low-lying areas.								
Perry County									
Conant	27	1400CST			0	0	40K		Thunderstorm Wind
	A thunderstorm microburst left a damage path about a quarter mile long and 60 yards wide. A trailer was destroyed, and debris was blown about 150 yards into trees east of the trailer. To the west of the trailer, a house roof was damaged, trees were down, and a pick-up truck was moved about 30 feet.								
Franklin County									
6 S Sesser	27	1420CST			0	0			Hail (1.00)
Jackson County									
Murphysboro	27	1433CST			0	0			Hail (0.88)
Williamson County									
Cambria	27	1438CST			0	0			Hail (0.75)
Johnson County									
Goreville to Vienna	27	1500CST			0	0			Hail (0.75)
	Hail up to three-quarters of an inch in diameter occurred in the Vienna and Goreville areas.								
Hamilton County									
3 W Dale	27	1510CST			0	0	20K		Thunderstorm Wind
	A barn was blown down.								
Saline County									
Harrisburg	27	1535CST			0	0	100K		Thunderstorm Wind (G70)
	A severe thunderstorm struck parts of Harrisburg with winds estimated near 80 MPH. A roof was blown off a house, and windows were blown out of a business. Signs were blown down or damaged, and a car was blown off the road. In downtown Harrisburg along Route 13, three businesses sustained major roof damage. An auto parts store lost a quarter of its roof, which damaged about a quarter of its inventory.								
Wabash County									
Lancaster to Allendale	27	1537CST			0	0	50K		Thunderstorm Wind (G61)
	Thunderstorm wind gusts were estimated by spotters to be around 70 MPH. A barn was blown down near Allendale, and trees were uprooted elsewhere in the county.								
Perry County									
Du Quoin	27	1545CST			0	0	50K		Lightning

Storm Data and Unusual Weather Phenomena

February 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
ILLINOIS, South									
									Lightning struck a house, setting it ablaze. The house and its contents were a total loss.
ILLINOIS, Southwest									
Brown County									
Mt Sterling	11	1400CST			0	0			Hail (1.00)
Brown County									
Mt Sterling	11	1400CST			0	0			Thunderstorm Wind (G55)
									Storm spotters reported trees down and 1 inch hail.
Calhoun County									
1.4 WNW Mozier to 8.6 NNE Mozier	11	1404CST 1412CST	9	100	0	0	300K		Tornado (F2)
									The Annada, MO tornado crossed the Mississippi River west of Mozier and continued northeast for about 9 miles across Calhoun County, IL. The tornado reached a maximum intensity of F2 with a damage path up to 100 yards wide. The tornado first damaged a home as it crossed Highway 96 north of Mozier. A 2 car garage was destroyed, the porch destroyed and several windows were blown out. The tornado moved northeast up West Panther Creek Hollow where it reached F2 intensity. One home was destroyed with only 2 walls left standing. 2 x 4 boards became missiles with several driven into walls and into the ground. Half of the roof of another nearby home was also blown off. 3 other homes suffered minor damage. Several outbuildings were also destroyed and numerous trees were uprooted along the path.
Calhoun County									
4 NNW Mozier to 5.5 NNE Mozier	11	1406CST 1409CST	3	50	0	0	100K		Tornado (F1)
									A small tornado formed north of Mozier, north of the Annada tornado, and tracked east northeast along Belleview Hollow. An 80 foot long hog sleeping station was destroyed along with a utility shed. This was the second year in a row that this hog farm had been hit by a tornado. The tornado also damaged a barn, several other utility buildings and a home at another farm. Flying metal injured a horse at the farm as well.
Pike County									
2 W Beecreek to .7 NE Pearl	11	1412CST 1417CST	5.7	70	0	0	200K		Tornado (F1)
									The Annada, MO tornado, which crossed Calhoun County, IL, then continued northeast crossing into southeast Pike County, IL west of Bee Creek. The tornado downed hundreds of trees as it tracked northeast to near Pearl. Here, part of the roof of a company was blown off causing at least \$150,000 in damage. One home suffered roof damage, a barn was destroyed and several outbuildings damaged. At another home, windows on 3 sides were blown out and a trampoline was blown about 300 feet away.
Greene County									
4 NNW Hillview to 4.6 NNW Hillview	11	1419CST 1421CST	1.4	50	0	0	80K		Tornado (F1)
									The same supercell that spawned the Whiteside and Annada, MO tornadoes formed another in northwest Greene County, IL northwest of Hillview. One barn and several outbuildings were destroyed. Numerous trees were also downed.
Madison County									
St Jacob	11	1515CST			0	0			Thunderstorm Wind (G55)
									Thunderstorm wind gusts damaged some outbuildings near St. Jacob.
St. Clair County									
Mascoutah	11	1535CST			0	0			Thunderstorm Wind (G55)
									Storm spotters reported trees down.
Marion County									
6 E Centralia to 6 E Central City	11	1645CST			0	0			Thunderstorm Wind (G55)
									The sheriff office reported trees down east of Centralia.
Marion County									
Salem	11	1700CST			0	0			Thunderstorm Wind (G60)
Marion County									
1 E Salem	11	1705CST			0	0			Thunderstorm Wind (G60)
									Salem Emergency Management reported trees down in town and just east of town. The roof of the old train depot in town was also blown off.
St. Clair County									
O Fallon	27	1152CST			0	0			Hail (1.00)
									Storm spotters reported 1 inch hail in O'Fallon.

Storm Data and Unusual Weather Phenomena

February 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
ILLINOIS, Southwest									
Madison County									
1 NW Troy	27	1205CST	0.2	50	0	0			Tornado (F0)
Law enforcement and several spotters reported a small tornado just northwest of Troy near the intersection of I-270 and I-55/70. The tornado was brief, formed in an open field and did no damage.									
Madison County									
Edwardsville	27	1215CST			0	0	200K		Hail (1.75)
Golfball size hail damaged vehicles and some roofs in Edwardsville.									
Bond County									
Pocahontas	27	1237CST			0	0	50K		Hail (1.75)
Golfball size hail damaged some vehicles in Pocahontas.									
Madison County									
Highland	27	1245CST			0	0			Hail (1.00)
Storm spotters reported 1 inch hail in Highland.									
Fayette County									
Vandalia	27	1254CST			0	0	50K		Hail (1.75)
Golfball size hail damaged a few vehicles in Vandalia.									
Clinton County									
St Rose	27	1300CST			0	0			Hail (1.00)
Amateur radio spotters reported 1 inch hail.									
Clinton County									
Trenton	27	1305CST			0	0			Hail (1.00)
The county sheriff reported 1 inch hail.									
Bond County									
Beaver Creek	27	1306CST			0	0			Hail (1.00)
Amateur radio spotters reported 1 inch hail.									
Monroe County									
3 W Waterloo	27	1310CST			0	0			Hail (1.00)
The county sheriff reported 1 inch hail just west of Waterloo.									
Clinton County									
Keyesport	27	1315CST			0	0			Hail (1.00)
Storm spotters reported 1 inch hail in Keyesport.									
Randolph County									
Sparta	27	1340CST			0	0			Hail (0.88)
Randolph County									
Sparta	27	1340CST			0	0	10K		Thunderstorm Wind (G52)
Storm spotters reported nickel size hail in Sparta. Wind gusts also damaged a utility shed.									
Marion County									
Junction City	27	1400CST			0	0	40K		Thunderstorm Wind (G55)
Marion County									
Sandoval	27	1400CST			0	0			Hail (1.00)
Thunderstorm wind gusts blew over 2 vacant mobile homes in Junction City. 1 inch hail was also reported in Sandoval.									
Marion County									
Salem	27	1410CST			0	0	100K		Hail (1.75)
Marion County									
Salem	27	1410CST			0	0	20K		Thunderstorm Wind (G53)
Golfball size hail broke some windows at a car dealership in Salem. A few mobile homes at a mobile home park also suffered minor wind damage.									
Fayette County									
Farina	27	1415CST			0	0			Hail (1.00)
Storm spotters reported 1 inch hail.									
Marion County									
Kinmundy	27	1420CST			0	0			Hail (1.25)
A cooperative observer reported 1 1/4 inch hail near Kinmundy									

Storm Data and Unusual Weather Phenomena

February 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

INDIANA, Central

INZ053>054-
061>062-067>068

Owen - Morgan - Greene - Monroe - Knox - Daviess

01 0000EST 0 0 Flood
18 0300EST

Flooding continued into the first week of February across southwestern parts of the White River. In addition, 1 to 2 inches of rain fell on the the sixth of February causing additional flooding along the White River as far northeast as Centerton. Flooding of agricultural bottomland and county roads was most extensive from Elliston downstream.

The following are crests and dates:

Centerton: FS - 12 Feet; Crest - 13.47 Feet on February 08
Spencer: FS - 14 Feet; Crest - 18.51 Feet on February 09
Worthington: FS - 18 Feet; Crest - 23.52 Feet on February 10
Elliston: FS - 18 Feet; Crest - 24.45 Feet on February 10
Newberry: FS - 13 Feet; Crest - 19.06 Feet on February 10
Edwardsport: FS - 15 Feet; Crest - 21.10 Feet on February 11
Petersburg: FS - 16 Feet; Crest - 22.15 Feet on February 13
Hazleton: FS - 16 Feet; Crest - 22.30 Feet on February 14

INZ028>029-035-
043>044-051-060-
067

Warren - Tippecanoe - Fountain - Vermillion - Parke - Vigo - Sullivan - Knox

01 0000EST 0 0 Flood
21 0900EST

Flooding continued into February along the Wabash River and was extended due to heavy rains on February 6. Numerous roads were closed along the river, while agricultural bottomland and many recreational cabins were also effected.

The following are crests for various sites along the Wabash:

Lafayette: FS - 11 Feet; Crest - 14.3 Feet on February 8
Covington: FS - 16 Feet; Crest - 19.0 Feet on February 10
Montezuma: FS - 14 Feet; Crest - 21.2 Feet on February 8
Terre Haute: FS - 14 Feet; Crest - 19.28 Feet on February 9
Riverton: FS - 15 Feet; Crest - 19.47 Feet on February 11
Vincennes: FS - 17.5 Feet; Crest - 21.23 Feet on February 12

INZ054

Morgan

07 0300EST 0 0 Flood
2300EST

A few roads had high water as White Lick Creek at Mooresville crested at 17.49 feet (flood stage is 15 feet) on February 7 following heavy rain.

INZ037

Boone

07 0700EST 0 0 Flood
2300EST

Minor flooding occurred along Eagle Creek at Zionsville. The Crest was at 7.98 feet (flood stage is 7 feet) on February 07.

INZ052

Clay

07 0700EST 0 0 Flood
08 2300EST

Heavy rain caused extensive flooding of bottomlands and county roads along the Eel River. Bowling Green crested at 19.42 feet (flood stage is 17 feet) on February 8.

INZ055

Johnson

07 0700EST 0 0 Flood
09 0300EST

Minor flooding occurred along Sugar Creek. The crest 2 miles northwest of Edinburg was at 10.83 feet (flood stage is 9 feet) on February 8.

INZ045

Putnam

07 0700EST 0 0 Flood
08 1200EST

Minor flooding occurred on February 7 along Big Raccoon Creek and Big Walnut Creek. The crest was at Fincastle was 11.04 feet (flood stage is 11 feet) and Reelsville was 13.49 feet (flood stage is 12 feet).

Storm Data and Unusual Weather Phenomena

February 1999

									February 1999
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage	Crops	Character of Storm
INDIANA, Central									
INZ045-053		Putnam - Owen							
	07	0700EST			0	0			Flood
	08	0300EST							
Minor flooding occurred along Mill Creek at Cataract. The crest was 15.87 feet (flood stage is 10 feet) on February 8.									
INZ042		Randolph							
	07	0700EST			0	0			Flood
		1200EST							
The Mississinewa River at Ridgeville crested at 10.64 feet (flood stage is 10 feet) on February 07. Minor flooding resulted.									
INZ065-071>072		Decatur - Jackson - Jennings							
	07	0700EST			0	0			Flood
	11	2300EST							
Minor flooding occurred along the Muscatatuck River. Vernon crested at 17.27 feet (flood stage is 17 feet) on February 07, while Wheeler Hallow crested at 19.9 feet (flood stage is 16 feet) on February 11.									
INZ070>071		Lawrence - Jackson							
	07	2300EST			0	0			Flood
	14	0300EST							
1 to 2 inches of rain across central Indiana caused moderate flooding along parts of the East Fork of the White River. Many county roads were flooded and agricultural bottomland was effected. Seymour crested at 16.7 feet (flood stage is 12 feet) on February 08, while Bedford crested at 22.86 feet (flood stage is 20 feet) on February 11.									
INZ047		Marion							
	08	0700EST			0	0			Flood
		1200EST							
Minor flooding occurred along Fall Creek. Millersville crested at 7.53 feet (flood stage is 7 feet) on February 8.									
INZ044		Parke							
	11	1242EST			0	0			High Wind (G46)
		1244EST							
3 Trees were knocked down near Rosedale. Spotter's wind instruments recorded a gust of 53 mph.									
Fountain County									
Kingman	11	1730EST			0	0			Thunderstorm Wind (G50)
		1732EST							
Fountain County									
1 W Hillsboro	11	1749EST			0	0			Thunderstorm Wind (G50)
		1751EST							
Vigo County									
Countywide	11	1750EST			0	0			Thunderstorm Wind (G50)
		2000EST							
Parke County									
Marshall	11	1755EST			0	0			Thunderstorm Wind (G50)
		1757EST							
Vermillion County									
Newport	11	1755EST			0	0			Thunderstorm Wind (G50)
		1757EST							
Shelby County									
5 W Shelbyville	11	2205EST			0	0			Thunderstorm Wind (G50)
		2207EST							
Brown County									
3 S Nashville	11	2206EST			0	0			Thunderstorm Wind (G50)
		2208EST							
Decatur County									
Greensburg	11	2215EST			0	0			Thunderstorm Wind (G50)
		2217EST							
A squall line moved through central Indiana knocking down numerous trees.									
Lawrence County									
Bedford to Countywide	27	1745EST			0	0	20K		Thunderstorm Wind (G60)
		1750EST							

Storm Data and Unusual Weather Phenomena

February 1999

February 1999									
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
Killed	Injured	Property	Crops						
<u>INDIANA, Central</u>									
Marion County									
Speedway	27	1745EST 1750EST			0	0			Hail (1.00)
Madison County									
Frankton	27	1802EST 1807EST			0	0			Hail (1.00)
A line of severe thunderstorms produced some damage to a mobile home and several buildings in Lawrence County, while 1 inch hail was reported in Speedway and Frankton.									
INZ045-053									
Putnam - Owen									
	28	0700EST 1200EST			0	0			Flood
Minor flooding occurred along Mill Creek at Cataract. The crest was 11.61 feet (flood stage is 10 feet) on February 28.									
<u>INDIANA, Northeast</u>									
INZ003									
La Porte									
	11	1955EST			0	0	3K		High Wind
A SEMI TRAILER WAS BLOWN OVER ON STATE ROAD 30 IN SOUTHERN LAPORTE COUNTY. SEVERAL TREES WERE REPORTED DOWNED IN MICHIGAN CITY. SOUTHWEST WINDS GUSTING IN EXCESS OF 55 MPH WERE RECORDED ACROSS MUCH OF THE MIDWEST AHEAD OF AN INTENSE COLD FRONT ON FEBRUARY 11TH. STRONG THUNDERSTORMS DEVELOPED ALONG AND AHEAD OF THE FRONT AS IT MOVED THROUGH ILLINOIS AND INDIANA. WINDS REMAINED HIGH IN THE WAKE OF THE FRONT DURING THE NIGHT OF FEBUARY 11TH AND IN THE EARLY MORNING HOURS OF FEBRUARY 12TH WITH OCCASIONAL GUSTS FROM THE WEST ABOVE 50 MPH.									
<u>INDIANA, Northwest</u>									
NONE REPORTED.									
<u>INDIANA, South Central</u>									
INZ077-079-091									
Washington - Jefferson - Floyd									
	07	1325EST 1345EST			0	0	1K		High Wind (G50)
Roof blown off mobile home, trees and power lines down									
A strong area of low pressure moved across the Ohio Valley bringing winds gusting to over 50 mph at many locations across the area.									
Crawford County									
Countywide	11	2347EST			0	0			Thunderstorm Wind (G50)
Trees down countywide									
Orange County									
Paoli	11	2357EST			0	0			Thunderstorm Wind (G50)
Power pole down									
Scott County									
Scottsburg	12	0002EST			0	0			Thunderstorm Wind (G50)
Trees down east of Scottsburg									
Dubois County									
Jasper	27	1650EST			0	0			Hail (1.00)
One inch hail fell in Jasper									
Orange County									
French Lick	27	1710EST			0	0			Hail (0.75)
Dime size hail fell in French Lick									
Dubois County									
Dubois	27	1715EST			0	0			Hail (1.00)
Quarter size hail fell in northeast part of county									
Orange County									
Paoli	27	1720EST			0	0			Hail (1.00)
One inch hail fell in Paoli									

Storm Data and Unusual Weather Phenomena

February 1999

February 1999									
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
Killed	Injured	Property	Crops						
INDIANA, South Central									
Orange County									
Countywide	27	1804EST			0	0			Thunderstorm Wind (G50)
A storage building was blown over west of Paoli, a shelter house was damaged in Paoli, and telephone lines were down east of Paoli. Trees and power lines were down countywide.									
Washington County									
Salem	27	1830EST			0	0			Thunderstorm Wind (G50)
Trees down									
Washington County									
Campbellsburg	27	1840EST			0	0			Hail (1.00)
One inch hail fell in Cambellsburg									
Harrison County									
Laconia	27	1847EST			0	0			Hail (1.75)
One and three quarter inch hail fell in Laconia									
INDIANA, Southeast									
Franklin County									
3 SE Brookville	11	2215EST 2230EST			0	0	3K		Thunderstorm Wind (G50)
Trees knocked down.									
Union County									
Clifton	11	2250EST 2255EST			0	0	10K		Thunderstorm Wind (G60)
Storms damaged a residence and a shed, and knocked down trees.									
INDIANA, Southwest									
INZ085-087>088 Posey - Warrick - Spencer									
01 06	0001CST 1000CST				0	0			Flood
The Ohio River, which crested in late January, fell below flood stage at Mount Vernon and Newburgh during the first week of February. The flooding that lingered into early February was minor, affecting agricultural bottomlands and some riverside roads and parks.									
INZ081-085 Gibson - Posey									
01 21	0001CST 1800CST				0	0	8K		Flood
The Wabash River, which rose above flood stage in late January, crested at New Harmony on February 15. Flood stage at New Harmony is 15 feet, and the crest of 18.21 feet produced only minor flooding.									
INZ081 Gibson									
01 04	0001CST 1800CST				0	0	3K		Flood
The Patoka River rose above flood stage in late January and crested on the morning of February 1 at Princeton. The crest at Princeton was only about 8 inches above the 18-foot flood stage. This resulted in minor flooding of low-lying areas.									
INZ081>082-085>088 Gibson - Pike - Posey - Vanderburgh - Warrick - Spencer									
07	0330CST 0600CST				0	0			Strong Winds
Strong winds ahead of an approaching cold front gusted to between 50 and 55 MPH at times. There were some tree limbs and a few weaker, older trees that blew down.									
Pike County									
Arthur	11	1930CST			0	0			Thunderstorm Wind (G50)
Thunderstorm winds gusted to 58 MPH.									
Warrick County									
Lynnville to Boonville	11	1944CST			0	0			Thunderstorm Wind (G52)
A television station relayed a report of measured wind gusts to 62 MPH at Boonville and 60 MPH at Lynnville.									

Storm Data and Unusual Weather Phenomena

February 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed Injured	Estimated Damage Property Crops	Character of Storm
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INDIANA, Southwest

Spencer County

Richland to 3 NE Richland	11	2012CST 2015CST			0 0	40K	Thunderstorm Wind (G75)
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Two barns were destroyed, one in Richland City and the other 3 miles northeast of Richland City. A grain auger was destroyed, and there was sign damage at a co-op in town. A small block building was blown apart. The roof was blown 50 to 75 feet away. Numerous trees were snapped or uprooted. All debris was blown in a northeast direction.

Spencer County

1.5 NE Richland	11	2012CST			0 0		Hail (1.00)
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A microburst in the same area caused significant damage.

Posey County

Poseyville	27	1545CST			0 0	50K	Thunderstorm Wind
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A trailer was blown over, and a barn was blown down.

Vanderburgh County

3 W Evansville to 3 E Evansville	27	1558CST			0 0	200K	Thunderstorm Wind (G75)
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Numerous trees and power lines were down in and around Evansville. Wind speeds were measured to 75 MPH at a television station in Evansville. A few microbursts with estimated wind speeds between 80 and 90 MPH occurred in and near Evansville. Two of the most intense microbursts were on the northwest side of Evansville and the east side of Evansville. On the northwest side, shingles were off roofs, some 2 by 4's were blown through a car windshield, and large storage buildings were damaged. This damage path was 1 to 2 miles long and 300 yards wide. Elsewhere in the county, in the McCutchanville area, large doors of a building were shoved in. About 3 miles north of Daylight on Interstate 164, a tractor trailer was overturned.

Just east of Evansville, near the junction of Interstate 164 and Route 62, two power poles were downed, and three houses sustained significant roof damage. A light commercial structure that was under construction was blown down.

Warrick County

Newburgh to 2 N Newburgh	27	1622CST			0 0	50K	Thunderstorm Wind
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Thunderstorm winds damaged at least two businesses in Newburgh. Power poles were snapped along Route 261.

IOWA, Central

IAZ004>007-015>017-023>028-033>039-044>050-057>062-070>074-081>084-092>095

Emmet - Kossuth - Winnebago - Worth - Palo Alto - Hancock - Cerro Gordo - Pocahontas - Humboldt - Wright - Franklin - Butler - Bremer - Sac - Calhoun - Webster - Hamilton - Hardin - Grundy - Black Hawk - Crawford - Carroll - Greene - Boone - Story - Marshall - Tama - Audubon - Guthrie - Dallas - Polk - Jasper - Poweshiek - Cass - Adair - Madison - Warren - Marion - Adams - Union - Clarke - Lucas - Taylor - Ringgold - Decatur - Wayne

	11	0900CST 1400CST			0 0	230K	Ice Storm
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A very vigorous storm system moved through the central U.S. during the morning of the 11th. Very warm and moist air was drawn north ahead of the system with record high temperatures in the 60s reported. Dew point temperatures soared into the mid to upper 50s as well. A wide variety of weather was associated with the storm. Thunderstorms were reported over much of the state, with significant storms including hail over the southeast third of Iowa. The problem was that in the wake of the surface low pressure system, a cold front passed through the state. Temperatures fell as much as 20 to 30 degrees in an hour or so after the frontal passage. Much of the state fell to freezing or below by daybreak on the 11th. The thunderstorms then moved over sub-freezing air to produce freezing rain. Further to the northwest there were no thunderstorms, however rain fell into areas where the surface temperature had fallen into the upper 20s. Travel was hazardous with some areas receiving over one quarter inch of ice. Significant ice accretion occurred over parts of northwest Iowa. In the Graettinger area of Palo Alto County, ice accumulated on trees which fell taking out power in the area for 7 hours. Most locations received little more than a tenth inch of ice cover however. There was some minor damage to trees around the area due to the wind and ice loading, but the most significant problem was with icy travel. Spotty power outages were also reported due to "galloping transmission lines", which is caused by ice accretion changing the aerodynamics of the lines such that they form an air foil in the wind. During the afternoon hours it became cold enough to change the freezing rain to snow. A band of snow moved across the state. The snow combined with winds of 30 to 40 MPH produced blizzard conditions for a brief period as the band moved through. Several roads were closed including Interstate 35 north of U.S. Highway 30 and Iowa State Highway 44 in Dallas County. The band of near zero visibility only lasted one to two hours and conditions improved rapidly during the evening. Many schools across the state closed early during the afternoon of the 11th, and most events across the state were cancelled that evening. There were hundreds of accidents reported across the state due to the icy roads. Rush hour traffic was a major problem in the larger cities such as Des Moines. The ice lingered into the next day, but at least the visibility had improved.

Storm Data and Unusual Weather Phenomena

February 1999									
Location	Date	Time	Path	Path	Number of		Estimated		Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops	

IOWA, Central
IAZ033>034-
044>046-057>059-
070>072-081>083-
092>094

Sac - Calhoun - Crawford - Carroll - Greene - Audubon - Guthrie - Dallas - Cass - Adair - Madison - Adams - Union - Clarke - Taylor - Ringgold - Decatur

22	1000CST	0	0	85K	Winter Storm
	2000CST				

A winter storm swept into Iowa on the morning of the 22nd, and continued through the day into the early evening hours. The storm system was not a classic storm system by any means. The system was totally devoid of moisture from the Gulf of Mexico. Satellite pictures indicated a tropical plume of moisture sweeping into the storm, however surface and upper air observations indicated no feed of moisture in the low levels. The storm system was very dynamic, producing height falls of nearly 300 meters at 300 mb, and over 150 meters at 500 mb. It was quite compact as well. The surface system was well defined, however the entire system weakened as it moved southeast. Starting in the northern Rockies, the surface low moved southeast across western Nebraska, through northeast Kansas, then across Missouri into the southern tip of Illinois. A large area of snow occurred north and east of the low pressure track. Heavy snowfall occurred in a relatively narrow area, with the snow intensity dropping off rapidly northeast of the heavy snow track. The heaviest snow fall over southwest Iowa, however heavy snow fall southwest of a Rockwell City, Dallas Center, to Lamoni line. Some of the heavier snowfall totals from the storm included Winterset with 7.5 inches, Creston, Lamoni, Mt. Ayr, Audubon, Greenfield and Guthrie Center with 8.0 inches, and Carroll and Glidden with 9.0 inches of new snow. Eight to nine inches of snow was reported over much of the west half of Guthrie County. Winds were a problem with the system due to the fluffy consistency of the snow. Southeast to east winds of 15 to 25 MPH and gusty were common during the storm, which caused considerable drifting of snow and some blowing snow. A few areas reported wind gusts over 35 MPH. Audubon for example had a wind gust of 36 MPH. Visibility was reduced to between 1/4 and 1/2 mile over the southwest third of Iowa for several hours. The Iowa D.O.T. was recommending no travel into the area for a few hours. The main problem was with icy roads. A period of warm weather had preceded the snowfall, thus the snow stuck to the roads and froze as the snowfall became heavier. There were numerous accidents through much of the southwest half of the state. Many schools and some activities were cut short or cancelled due to the ice. There were no major problems with the storm however.

Calhoun County						
5 SW Lake City	26	0840CST	0	0	0.50K	Hail (1.00)

5 SW Lake City	26	0840CST	0	0	0.50K	Hail (1.00)
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A strong warm advection pattern was in place over Iowa during the early morning of the 26th. Elevated thunderstorms developed over western Iowa and moved northeast quickly. With the atmosphere being relatively cold from the winter season, many of the storms produced hail with ease. One inch diameter hail fell southwest of Lake City as the storm moved overhead.

Jasper County						
Galesburg	26	2245CST	0	0	1K	Urban/Sml Stream Fld

Galesburg	26	2245CST	0	0	1K	Urban/Sml Stream Fld
	27	0130CST				

The same storm system that produced severe weather in the morning advanced east during the day. Though no severe weather occurred during the evening, moisture had increased significantly by the evening hours as dew point temperatures reached 60 degrees just south of Iowa. This moist air was lifted along a weak cold front advancing across the state and thunderstorms developed over parts of central and southeast Iowa. Rainfall was heavy for late February. One to two inches of rain fell in under two hours over the south third of Jasper County. This caused urban flooding as the soil was quite moist from recent snow melt. The flooding was not a major problem, but considerable ponding was reported on roadways.

IOWA, East Central and Southeast

Van Buren County

9 N Bonaparte	11	1125CST	0	0	0.20K	Thunderstorm Wind
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Henry County

3 E Hillsboro	11	1130CST	0	0	25K	Thunderstorm Wind
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Henry County

Mt Pleasant	11	1130CST 1200CST	0	0	5K	Thunderstorm Wind
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Lee County

4 W Montrose	11	1150CST	0	1	Thunderstorm Wind (G52)
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Louisa County

Countywide	11	1200CST 1225CST	0	0	Thunderstorm Wind (G55)
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Jones County

1.5 S Olin	11	1204CST	0	0	Thunderstorm Wind (G50)
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Dubuque County

Dubuque	11	1216CST	0	0	Hail (0.80)
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Storm Data and Unusual Weather Phenomena

February 1999

February 1999									
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>IOWA, East Central and Southeast</u>									
Louisa County									
Letts	11	1220CST 1222CST			0	2	20K		Thunderstorm Wind (G63)
Muscatine County									
2 SW Muscatine	11	1220CST			0	0	20K		Thunderstorm Wind (G60)
Muscatine County									
Muscatine	11	1221CST 1231CST			0	0	9K		Thunderstorm Wind (G63)
Lee County									
5 SE Houghton	11	1230CST			0	0	2K		Thunderstorm Wind
Scott County									
Countywide	11	1230CST 1240CST			0	0	20K		Thunderstorm Wind
Scott County									
Walcott	11	1230CST			0	0	7K		Thunderstorm Wind
Clinton County									
Central Portion	11	1240CST 1250CST			0	0	0.20K		Thunderstorm Wind
Des Moines County									
Burlington	11	1250CST			0	0	0.50K		Thunderstorm Wind
Jackson County									
Central Portion	11	1250CST 1300CST			0	0	5K		Thunderstorm Wind

An intensifying squall line ahead of a strong cold front sent severe thunderstorms racing across Eastern Iowa and Northwest Illinois. Widespread damage from high winds and hail was reported across Southeast Iowa into Northwest Illinois as the storms moved northeast. In Eastern Iowa high profile vehicles were overturned by the strong winds, and many downed trees, damaged homes, and farm buildings were reported. Two people were injured in Louisa county when the motor home in which they were riding was swept off the road and blown into a ditch, and in Lee county a man sustained injuries when the semi he was driving was blown over. In Muscatine strong winds tore a portion of roof off an office furniture plant and sent it crashing into an employee parking lot causing damage to numerous cars. And at a home in Dixon, fire fighters from four towns were called to extinguish a lightning-caused fire.

IOWA, Northeast

**IAZ008>009-
018>019**

Mitchell - Howard - Floyd - Chickasaw

11	1500CST 2030CST	0	1	60K	Winter Storm
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Morning rain showers and even some thunder and lightning gave way to a mix of freezing rain, snow and sleet, which changed to all snow by afternoon. Although snow amounts only totaled 1 to 3 inches, strong north winds with gusts to 50 mph caused whiteout conditions. A truck driver was injured slightly when a sudden burst of wind toppled his semi into a ditch near Riceville (Howard County).

IOWA, Northwest

**IAZ020>021-
031>032**

Plymouth - Cherokee - Woodbury - Ida

22	0700CST 2300CST	0	0	Heavy Snow
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Snowfall of 6 to 10 inches slowed transportation. The snow also forced schools and some businesses to close early.

IOWA, Southwest

**IAZ043-055>056-
069**

Monona - Harrison - Shelby - Pottawattamie

11	1000CST 1600CST	0	0	High Wind (G50)
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High wind and snow brought winter weather abruptly back to residents of western Iowa a day after record setting highs in the 70s were observed. A sustained northwest wind of 35 to 40 mph and gusts over 50 mph was accompanied by snowfall of 1 to 3 inches. This created near whiteout conditions for a while across the region.

Storm Data and Unusual Weather Phenomena

February 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

IOWA, Southwest

IAZ056-069

Shelby - Pottawattamie

18 1000CST 1900CST 0 0 Winter Storm

Freezing drizzle and sleet changed over to snow and quickly became heavy across parts of western Iowa during the late morning of 2/18/99. Snowfall of 6 inches was observed in a band over most of Pottawattamie and Shelby counties.

IAZ043-055>056-069-079>080-090>091

Monona - Harrison - Shelby - Pottawattamie - Mills - Montgomery - Fremont - Page

22 0500CST 2100CST 0 0 Winter Storm

A winter storm dropped 8 to 10 inches of snow across almost all of western Iowa with like amounts across eastern Nebraska. The snow was accompanied by an east to southeast wind of 15 to 30 mph which caused some blowing and drifting of the snow. The snow caused cancellations of classes at many schools either Monday morning or afternoon (02/22/99) as well as Tuesday. Heavier snow amounts in western Iowa included...10 inches at Shenandoah, Logan and Little Sioux and 9 inches at Red Oak, Oakland, Glenwood and Sidney.

KANSAS, East

Shawnee County

Topeka

11 0550CST 0 0 Lightning

Lightning struck a power line and knocked out power to about 1300 KPL customers for several hours.

Douglas County

Lawrence

11 0754CST 0 0 Hail (0.75)

Anderson County

Garnett

11 0755CST 0 0 Hail (0.75)

Anderson County

Garnett

11 0756CST 0 0 Hail (1.00)

KSZ010-024

Marshall - Jackson

11 1050CST 1335CST 1 0 High Wind (G40)

Strong winds produced blowing snow that caused poor visibility and resulted in a car and semi-trailer accident 2 miles east of Home City. The driver of the car was killed at the scene of the accident. M60VE

KSZ008>012-022>024-026-038>040-056

Republic - Washington - Marshall - Nemaha - Brown - Riley - Pottawatomie - Jackson - Jefferson - Wabaunsee - Shawnee - Douglas - Franklin

22 0500CST 23 0200CST 0 0 Winter Storm

Anywhere from 2 to as much as 6 inches of snow fell across northeast and part of east central Kansas. The snow was accompanied by strong winds which produced considerable blowing and drifting snow along with poor visibilities. A number of traffic accidents resulted from the storm and produced numerous minor injuries.

KANSAS, Extreme Southeast

NONE REPORTED.

KANSAS, North Central

NONE REPORTED.

KANSAS, Northeast

NONE REPORTED.

KANSAS, Northwest

KSZ002-013

Rawlins - Sherman

11 0600CST 12 0400CST 0 2 High Wind (G50)

High winds blew down a large Cottonwood Tree and blew out a few house windows in Atwood. The high winds also jackknifed a truck on Interstate 70 near Goodland and injured 2 people in the truck as the trailer flipped over a bridge.

Storm Data and Unusual Weather Phenomena

February 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

KANSAS, Southeast

Greenwood County

5 SE Eureka 11 0626CST 0 0 Thunderstorm Wind (G52)

KANSAS, Southwest

NONE REPORTED.

KENTUCKY, Central

KYZ030-033>035-041 Jefferson - Henry - Shelby - Franklin - Fayette

07 1325EST 0 0 14K High Wind (G45)
1405EST

Roof damage at radio station, trees and power lines down

A strong area of low pressure moved across the Ohio Valley bringing winds in excess of 50 mph in many locations.

Logan County

5 S Russellville 11 2224EST 0 0 5K Thunderstorm Wind
Roof blown off home in southern Logan county

Meade County

6 S Brandenburg 27 1842EST 0 3 30K Thunderstorm Wind
Two trailers were destroyed, and 4 were damaged. Trees and power lines downed.

Jefferson County

Shively 27 1910EST 0 0 5K Thunderstorm Wind
Roof damage

Bullitt County

Mt Washington 27 1920EST 0 0 Hail (0.75)
Dime size hail fell

Hart County

10 NE Munfordville 27 1920EST 0 0 2K Thunderstorm Wind
Trailer damaged in northeastern Hart county

Spencer County

Elk Creek 27 1940EST 0 0 Thunderstorm Wind (G50)
Trees downed

KENTUCKY, Eastern

NONE REPORTED.

KENTUCKY, Northeast

KYZ101>103-105 Greenup - Carter - Boyd - Lawrence

11 1200EST 0 0 Record Warmth
1700EST

Afternoon temperatures soared well into the 70s. Grayson and Ashland both observed 78 degrees.

KYZ101>103-105 Greenup - Carter - Boyd - Lawrence

12 1000EST 0 0 Snow
1400EST

Less than 24 hours after temperatures in the 70s, 1 to 3 inches of snow fell in the wake of a strong cold frontal passage.

KENTUCKY, Northern

NONE REPORTED.

KENTUCKY, Southwest

KYZ004>005-007-010-014-018 Ballard - Mcracken - Livingston - Crittenden - Union - Henderson

01 0001CST 0 0 12K Flood
08 1200CST

The Ohio River, which rose above flood stage in mid to late January, crested on February 1 at Uniontown and Paducah. The crest at Paducah was 44.23 feet, which is over 5 feet above flood stage. The crest at Uniontown (J.T. Meyers Lock and Dam) was 43.85

Storm Data and Unusual Weather Phenomena

February 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

KENTUCKY, Southwest

feet, about 7 feet over flood stage. The river fell below flood stage by February 8. At the height of the flood, several small unprotected towns experienced moderate flooding, otherwise the flooding was mostly confined to agricultural bottomlands and roads.

KYZ020

McLean

01	0001CST	0	0	Flood
02	2000CST			

The Green River, which crested at Calhoun in late January, fell below flood stage on February 2.

Graves County

3 S Dublin

07	0200CST	0	0	30K	Thunderstorm Wind (G52)
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A small tool barn was destroyed. Elsewhere in the county, numerous trees were blown down and a mobile home was overturned.

Carlisle County

Milburn

07	0252CST	0	0	20K	Thunderstorm Wind (G55)
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Numerous trees and limbs were down. Wind gusts across western Kentucky averaged from 45 to 55 MPH outside of thunderstorms. Isolated higher gusts between 60 and 70 MPH occurred in and near thunderstorms.

KYZ001>011-

013>016-018>021

Fulton - Hickman - Carlisle - Ballard - Mcracken - Graves - Livingston - Marshall - Calloway - Crittenden - Lyon - Caldwell - Union - Webster - Hopkins - Henderson - Daviess - Mclean - Muhlenberg

07	0255CST	0	0	40K	Strong Winds
	0500CST				

Strong winds ahead of an approaching cold front gusted to between 45 and 55 MPH for a few hours. These winds brought down scattered tree limbs and a few rotted or older trees. Near Paducah, a tree fell on a business, causing considerable damage. Just south of Paducah in the Farley section of McCracken County, a 150-foot oak tree crashed onto a house, falling through the roof of the kitchen and both bedrooms. A few power outages occurred across western Kentucky, mainly in conjunction with downed tree limbs. Isolated higher damaging wind gusts over 60 MPH were associated with thunderstorms. Automated observing sites at Paducah and Madisonville indicated peak wind gusts of 44 to 49 MPH.

Marshall County

Calvert City

07	0312CST	0	0	40K	Thunderstorm Wind (G56)
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A wind gust to 65 MPH was measured at Calvert City. A roof was partially blown off a house. Trees and signs were down. General winds outside of thunderstorm activity gusted to 50 MPH. Showers and thunderstorms produced higher gusts between 60 and 65 MPH.

Muhlenberg County

Beech Creek

11	2030CST	0	0	Thunderstorm Wind (G52)
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High thunderstorm winds estimated near 60 MPH downed a large tree.

Todd County

Elkton

11	2034CST	0	0	Thunderstorm Wind (G52)
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Union County

.5 E Morganfield to 3 NE Morganfield

27	1600CST	3	100	0	2	200K	Tornado (F1)
	1605CST						

Three mobile homes in a mobile home park were destroyed, and 3 others received major damage. Several garages and small storage buildings were destroyed. Two occupants of one of the mobile homes were hospitalized for cuts, bruises, and torn ligaments. Top winds were estimated near 110 MPH.

LOUISIANA, Northeast

Tensas Parish

St Joseph

09	1230CST	0	0	Flash Flood
	1400CST			

Several city streets were flooded. Yards were flooded with water approaching several homes and businesses.

Catahoula Parish

Harrisonburg

09	1645CST	0	0	Hail (0.75)
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Catahoula Parish

Countywide

27	1615CST	0	0	2K	Thunderstorm Wind
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Several trees were blown down throughout the Parish.

Concordia Parish

Monterey

27	1630CST	0	0	5K	Thunderstorm Wind
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Several trees and power lines were blown down.

Storm Data and Unusual Weather Phenomena

February 1999

February 1999									
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
LOUISIANA, Northwest									
De Soto Parish									
Stonewall	27	1310CST			0	0			Hail (0.75)
Bossier Parish									
Bossier City	27	1410CST			0	0			Hail (1.00)
Caddo Parish									
Shreveport	27	1410CST			0	0			Hail (0.88)
Red River Parish									
Coushatta	27	1415CST			0	0			Hail (0.75)
Caddo Parish									
1 W Blanchard	27	1435CST			0	0			Hail (0.88)
Caddo Parish									
2 N Shreveport	27	1435CST			0	0			Hail (0.88)
Caddo Parish									
Shreveport	27	1500CST			0	0			Hail (1.00)
Bossier Parish									
Benton	27	1535CST			0	0			Hail (1.00)
Natchitoches Parish									
Natchitoches	27	1745CST			0	0			Hail (0.75)
Bossier Parish									
Benton	27	1533CST 1539CST			0	0			Hail (1.00)
LOUISIANA, Southeast									
St. Tammany Parish									
Slidell	27	1830CST			0	0			Hail (0.75)
Dime sized hail was reported in several locations between Bayou Liberty and Oak Harbour.									
St. Charles Parish									
Norco	27	2300CST	0.8	35	0	0	100K		Tornado (F1)
A weak F1 tornado touched down along an intermittent path about three quarters of a mile long and 25 to 50 yards wide path. The tornado destroyed 3 mobile homes and heavily damaged 2 buildings. In addition, the tornado produced mostly minor damage to roofs of 29 different structures in the area. There was moderate to heavy damage to a roof and wall on the second floor of a two-story apartment building and moderate damage to an elementary school. Damage was surveyed by NWS Meteorologist.									
LOUISIANA, Southwest									
LAZ027-030									
Vernon - Beauregard									
01		0000CST			0	0	1.5M		Flood
11		0000CST							
The Sabine River flooded below Toledo Bend Dam in early February, reaching the highest flood levels since May and July 1989. On the Louisiana side of the river, hundreds of acres of farmland were washed away, as well as a dozen cattle. Woodlands near the river were also significantly impacted. Over 30 homes in Vernon Parish and another 30 homes in Beauregard Parish received serious damage. Over 200 people were forced to evacuate. Dozens of roads in both parishes were damaged from high water, causing the damages to rise to over a million dollars between the two parishes.									
Vernon Parish									
Leesville	27	1530CST			0	0	10K		Thunderstorm Wind
Trees were downed in Leesville.									
Rapides Parish									
5 SW Alexandria	27	1540CST			0	0			Hail (0.75)
Rapides Parish									
7 SE Alexandria	27	1610CST			0	0			Hail (0.75)
Rapides Parish									
15 SE Alexandria	27	1610CST			0	0			Hail (0.75)
Beauregard Parish									
2 N Ragley	27	1610CST			0	0	10K		Thunderstorm Wind
Trees blown down.									

Storm Data and Unusual Weather Phenomena

February 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

LOUISIANA, Southwest

Allen Parish

2 W Kinder	27	1637CST			0	0	50K		Thunderstorm Wind
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A mobile home was rolled over and destroyed during a severe thunderstorm. Several trees were also blown down. No one was home at the time, so there were no injuries.

Calcasieu Parish

15 N Sulphur	27	1948CST			0	0			Hail (0.75)
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Calcasieu Parish

Lake Charles	27	2030CST			0	0			Hail (1.00)
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Lafayette Parish

8 SW Lafayette	27	2120CST			0	0			Hail (0.75)
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MAINE, North

NONE REPORTED.

MAINE, South

NOT RECEIVED.

MARYLAND, Central

Montgomery County

Wheaton	12	1700EST			0	0	10K		Thunderstorm Wind
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Unoccupied elementary school lost its roof

Charles County

Pisgah	12	1705EST			0	0	0.50K		Thunderstorm Wind
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Tree downed in area of Stuckey Lane and Poorhouse Road

Howard County

3 NE Columbia	12	1715EST			0	0	4K		Thunderstorm Wind
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Two trees downed, two cars damaged

Charles County

5 W Waldorf	12	1720EST			0	0	5K		Lightning
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Lightning struck tree and pole starting fire, wire arching, and damaged transformer and connectors

Charles County

Welcome	12	1730EST			0	0	0.50K		Thunderstorm Wind
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Tree downed across Route 6 West and Mill Swamp Road

Charles County

La Plata	12	1744EST			0	0	1K		Thunderstorm Wind
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Tree downed onto intersection of Shining Willow Way and Washington Avenue

A strong cold front swept across the region during mid-afternoon on the 12th, accompanied by thunderstorms with damaging wind and a temperature drop of nearly 30 degrees. Washington Reagan National Airport in Arlington County recorded a wind gust of 41 MPH as thunderstorms moved through around 4:15 pm. The strong wind accompanying the storms was blamed for damaged to an unoccupied elementary school in Montgomery County around 5:00 pm. The school on Horde Street in Wheaton lost its roof when the storms rolled through. A gust of around 55 MPH was reported by a spotter near Columbia in Howard County around 5:15 pm. The wind uprooted one tree and cut another tree in half in a business district of Columbia off of Route 108. The downed trees damaged two cars. Trees and branches were also reported down on Red Branch Parkway about 3 miles north of Columbia. Several trees were knocked down by the thunderstorms as they moved through Charles County. A wind anemometer on the Potomac River bridge in Charles County recorded a wind gust of 55 MPH at 5:45 pm. The winds chopped the waters on the Potomac River up to such an extent that a boat and its occupant had to be rescued at the height of the storm near Leesylvania Park. Local officials reported a tree down on Poorhouse Road in the area of Stuckey Lane near Pisgah, another across Route 6 West at Mill Swamp Road near Welcome, and two trees across the intersection of Shining Willow Way and Washington Avenue in La Plata. Lightning from the storm also struck a tree and power pole on Route 228 near Briarwood, starting a fire and resulting in arched and downed wires in the vicinity. In addition, a wind anemometer at Tall Timbers in St. Mary's County measured a wind gust of 57 MPH at 6:14 pm as the storms passed through.

MARYLAND, Northeast

MDZ008-012-015-019>020 **Cecil - Kent - Queen Annes - Talbot - Caroline**

01	0000EST	0	0	0	0	Drought
28	2359EST					

Storm Data and Unusual Weather Phenomena

February 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

MARYLAND, Northeast

On a county weighted average February 1999 precipitation totals along the Eastern Shore ranged between 2.2 and 2.8 inches with the heaviest precipitation falling in Cecil County and lighter amounts farther south. Precipitation totals were between 70 and 100% of normal. Coupled with an extremely wet January, stream flows crept closer to normal levels. However, additional precipitation was still needed to overcome longer-term water shortages as ground water levels were still below normal in most parts of the state. A drought warning remained in effect for the state of Maryland.

MARYLAND, South

Worcester County

Ocean City	12	2005EST			0	0			Thunderstorm Wind (G52)
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Wind gust to 60 mph reported at Public Safety Building.

MARYLAND, West

NONE REPORTED.

MASSACHUSETTS, Central and East

Bristol County

Taunton	02	1500EST			0	0			Heavy Rain
	03	0300EST							

Essex County

Gloucester	02	1500EST			0	0			Heavy Rain
	03	0300EST							

Norfolk County

Milton	02	1500EST			0	0			Heavy Rain
	03	0300EST							

Plymouth County

Plymouth	02	1500EST			0	0			Heavy Rain
	03	0300EST							

Worcester County

Milford	02	1500EST			0	0			Heavy Rain
	03	0300EST							

MAZ013>024

Western Norfolk - Southeast Middlesex - Suffolk - Eastern Norfolk - Northern Bristol - Western Plymouth - Eastern Plymouth - Southern Bristol - Southern Plymouth - Barnstable - Dukes - Nantucket

	02	1800EST			0	0			Strong Winds
	03	0300EST							

MAZ017

Northern Bristol

	02	2200EST			0	0			High Wind (G57)
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Taunton (spotter)

A strong low pressure system moved from the Carolinas to southern New England, bringing strong southeast winds and over two inches of rain to eastern Massachusetts. The highest gust reported was 66 mph, by a spotter in Taunton. Other strong wind gusts included 56 mph at the Blue Hill Observatory in Milton, 47 mph at Pocasset on Cape Cod, and 46 mph at Nantucket. Some rainfall amounts exceeding two inches included 2.74 inches in Taunton (spotter), 2.53 inches in West Mansfield, 2.51 inches in Norton, 2.50 inches in Plymouth, 2.44 inches in Hingham, 2.41 inches in Acushnet, 2.18 inches in New Bedford, 2.08 inches in Milford, and 2.00 inches in Attleboro and at Beverly Airport. There were no reports of damage from this event.

MAZ012-015>016

Southern Worcester - Suffolk - Eastern Norfolk

	12	1350EST			0	0			Record Warmth
		2119EST							

The high temperature of 53 degrees in Worcester broke the previous record high of 52 degrees, which was set in 1984. At the Blue Hill Observatory in Milton, the high temperature of 56 degrees broke the previous record high of 55 degrees, which was also set in 1984. The high temperature of 58 degrees at Logan International Airport tied the record high for the date, which was set in 1984.

MAZ004>005-010>024

Northern Worcester - Western Middlesex - Eastern Hampshire - Eastern Hampden - Southern Worcester - Western Norfolk - Southeast Middlesex - Suffolk - Eastern Norfolk - Northern Bristol - Western Plymouth - Eastern Plymouth - Southern Bristol - Southern Plymouth - Barnstable - Dukes - Nantucket

	25	0000EST			0	0			Heavy Snow
	26	0300EST							

MAZ022>024

Barnstable - Dukes - Nantucket

	25	0600EST			0	0			Strong Winds
	26	0000EST							

Storm Data and Unusual Weather Phenomena

February 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

MASSACHUSETTS, Central and East

MAZ024

Nantucket

25 1600EST

0 0

High Wind (G58)

A powerful nor'easter, which passed about 200 miles southeast of Cape Cod, brought heavy snow and strong winds to the eastern third of the state. The hardest hit areas were in southeast Massachusetts, including Cape Cod, where as much as two feet of snow was reported. A peak wind gust of 67 mph was reported from Nantucket. The heavy snow and strong winds toppled trees and utility poles on the Cape and Islands, where more than 16,000 electric customers lost power by early morning on the 26th. The storm forced the cancellation of half of the scheduled 700 flights from Logan International Airport in Boston. Rush hour traffic was snarled on the main routes out of the Boston area as well.

There was one fatality in Norton, in Bristol County, which was not directly attributed to the storm. A 9-year old boy wandered from his home and became disoriented during the heavy snow. He died as a result of exposure to the snow and cold, but had a pre-existing medical condition which led to the fatality.

Some of the higher snowfall totals from this storm included 24 inches in Harwich, 22 inches in Marstons Mills, and 20 inches in West Dennis, all on Cape Cod. Other totals on the Cape ranged from 12 to 19 inches, with the exception of 8 inches in Provincetown. Nantucket and Martha's Vineyard reported totals ranging from 17 to 19 inches. The National Weather Service Office in Taunton reported 10.9 inches, Worcester reported 10.5 inches, and Logan International Airport reported 6.5 inches of snow. The least amount of snow fell in western Massachusetts, where between 2 and 7 inches were reported in Franklin, Hampshire, and Hampden Counties.

MASSACHUSETTS, West

NONE REPORTED.

MICHIGAN, East

**MIZ047>049-
053>055-060>063-
068>070-075>076-
082>083**

Midland - Bay - Huron - Saginaw - Tuscola - Sanilac - Shiawassee - Genesee - Lapeer - St. Clair - Livingston - Oakland - Macomb - Washtenaw - Wayne - Lenawee - Monroe

**11 1200EST
2000EST**

0 0

Record Warmth

High pressure was located over the southeast United States, while a potent low pressure system was located in the upper Mississippi Valley. In between, strong southwest winds brought unusually warm air into the Great Lakes. This resulted in the warmest February day in southeast Michigan history.

In Detroit, the temperature rose to 70 degrees. This broke the all-time February record in Detroit (old record was 68 degrees on Feb 26, 1944), and was the earliest 70-degree day in Detroit history by almost a full month.

In Flint, the high for the day was 68 degrees. This was not only the warmest February day in Flint history, but it smashed the old record by 5 degrees (63 degrees on Feb 23, 1984). Even more remarkable was that the 68 degrees obliterated the old record for February 11th by an astonishing 26 degrees!

Midland County

11 N Midland

11 2240EST

0 0

6K

Thunderstorm Wind (G52)

A line of showers with a few embedded thunderstorms developed in southwest lower Michigan in the evening hours of the 11th, just ahead of a strong cold front. These showers and thunderstorms weakened as they moved into the Saginaw Valley, but were still strong enough to produce an isolated wind gust to around 60 mph. A tree was downed onto a car in Mills Township.

MICHIGAN, Extreme Southwest

NONE REPORTED.

MICHIGAN, North

Manistee County

Wellston

11 1809EST

0 0

Thunderstorm Wind (G53)

Grand Traverse County

5 W Traverse City

11 1830EST

0 0

Thunderstorm Wind (G50)

A tree was toppled on powerlines.

Storm Data and Unusual Weather Phenomena

February 1999

February 1999									
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
<u>MICHIGAN, North</u>									
MIZ022-025>027-031>033									
Otsego - Benzie - Grand Traverse - Kalkaska - Manistee - Wexford - Missaukee									
	28	1300EST 2300EST			0	0			Winter Storm
Moisture wrapping around a nearly stationary low over Lake Huron produced locally heavy snows across the region. Storm totals ranged from 6 to 8 inches of accumulation. The heavy wet snow created hazardous driving conditions and was a contributing factor to many accidents.									
<u>MICHIGAN, Upper</u>									
MIZ002>003-009									
Ontonagon - Houghton - Gogebic									
	11	1800EST			0	0			Heavy Snow
	12	1500EST							
A low pressure system over eastern Lake Superior drew cold, moist air over western Upper Michigan on northwest winds. The relatively warm waters of western Lake Superior enhanced the snowfall amounts. Twenty-four hour snowfall totals were around 6 inches along the shoreline at Ontonagon and Silver City, but locations 10 to 15 miles inland saw accumulations of 13 inches at Houghton County Airport, 14 inches at Ironwood, and 15 Inches at Rockland.									
MIZ001-003-005									
Keweenaw - Houghton - Marquette									
	16	2200EST			0	0			Heavy Snow
	17	1700EST							
A pool of cold Canadian air was centered just north of Lake Superior as a low pressure system tracked from southern Minnesota across Wisconsin, lower Michigan and into Quebec. Precipitation started as light freezing drizzle but soon turned to snow with the arrival of the colder air. As the system moved east, most of the Upper Peninsula received from 3 to 5 inches of system snow. Northeast winds behind the low generated lake effect snow squalls along the south shore of Lake Superior with the heaviest accumulations over the north central Upper Peninsula and the Keweenaw Peninsula. Storm totals include 17 inches at the Marquette County Airport, 16 inches at Phoenix, 14 inches at the Houghton County Airport and 10 inches at Witch Lake.									
<u>MICHIGAN, West</u>									
MIZ037>040-043-043>046-050>052-056>059-064>067-071>074									
Mason - Lake - Osceola - Clare - Oceana - Newaygo - Mecosta - Isabella - Muskegon - Montcalm - Gratiot - Ottawa - Kent - Ionia - Clinton - Allegan - Barry - Eaton - Ingham - Van Buren - Kalamazoo - Calhoun - Jackson									
	05	1900EST 2330EST			0	0			Freezing Rain
A fast moving storm system produced a mix of light freezing rain, light snow, and sleet across southern lower Michigan during the evening hours. The band of precipitation was narrow, and the precipitation was light, and only lasted for 3 to 4 hours. No damage was reported.									
Mason County									
Ludington	11	1737EST			0	0	10K		Thunderstorm Wind
Trees were reported downed by strong winds in Ludington.									
Newaygo County									
Hesperia	11	1757EST			0	0	10K		Thunderstorm Wind
Trees were downed by strong winds in Hesperia.									
Lake County									
Baldwin	11	1800EST			0	0	10K		Thunderstorm Wind
A 60 mile per hour wind gust was reported in Baldwin, and 18" diameter trees were downed.									
Newaygo County									
Bitely	11	1810EST			0	0	10K		Thunderstorm Wind
Trees were downed by strong winds and covered some roadways in Bitely. A 58 mile per hour wind gust was reported in White Cloud.									
Osceola County									
Hersey	11	1830EST			0	0	1K		Thunderstorm Wind
Strong winds blew out a garage door in Hersey.									
Calhoun County									
Pine Creek	11	1911EST			0	0			Thunderstorm Wind (G51)
A 60 mile per hour wind gust was reported at Pine Creek.									
Allegan County									
Moline	11	2125EST			0	0			Thunderstorm Wind (G59)

Storm Data and Unusual Weather Phenomena

February 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

MICHIGAN, West

A 68 mile per hour wind gust was reported in Moline.

Kent County

Sparta

11 2126EST **0 0** **Thunderstorm Wind (G50)**
A 58 mile per hour wind gust was reported in Sparta.

Kent County

Grand Rapids

11 2131EST **0 0** **Thunderstorm Wind (G55)**
A 63 mile per hour wind gust was reported in Grand Rapids.

Barry County

Middleville

11 2138EST **0 0 10K** **Thunderstorm Wind**
Wind damage was reported and some power lines were downed by strong winds.

Mecosta County

Big Rapids

11 2146EST **0 0** **Thunderstorm Wind (G61)**
A 70 mile per hour wind gust was reported in Big Rapids.

Ionia County

Saranac

11 2155EST **0 0 10K** **Thunderstorm Wind**
Some wind damage was reported including downed power lines.

Montcalm County

Greenville

11 2213EST **0 0 10K** **Thunderstorm Wind**
Trees were downed by strong winds.

Montcalm County

Sheridan

11 2223EST **0 0 10K** **Thunderstorm Wind**
Some power lines were downed by strong winds.

Clare County

Clare

11 2230EST **0 0 10K** **Thunderstorm Wind (G51)**
A 60 mile per hour wind gust was reported and some trees were downed.

Gratiot County

Alma

11 2240EST **0 0 10K** **Thunderstorm Wind**
Some trees and power lines were downed by strong winds.

A cold front moving west to east across the Great Lakes region triggered the development of showers and thunderstorms over southern lower Michigan during the evening hours of the 11th. Temperatures preceding the frontal passage rose into the upper 60's to around 70 degrees. Thunderstorms developed and a bow echo formed during the early evening hours. It produced several reports of 50 to 70 mile per hour wind gusts, causing some wind damage, including downed trees.

Later that evening, a line of rain showers associated with the actual cold front produced widespread reports of 60 to 70 mile per hour winds. As a result, there were many downed trees and power lines.

**MIZ043>044-
050>051-056>058-
064>066-071>073**

Oceana - Newaygo - Muskegon - Montcalm - Ottawa - Kent - Ionia - Allegan - Barry - Eaton - Van Buren - Kalamazoo - Calhoun

12 1100EST **0 0** **Lake Effect Snow**
13 0400EST

Lake effect snow developed across southwestern lower Michigan as strong west winds of 20 to 30 miles per hour moved over the relatively warm waters of Lake Michigan. Reports of 1 to 4 inches of snow were common. Due to the strength of the wind, the lake effect snow bands were able to move inland quite a ways. As the wind diminished overnight and became more northwest, the snow ended east of US-131. However, snow continued until the early morning hours from US-131 west to the lakeshore.

The following is a list of specific snowfall totals for the 12th through the early morning hours of the 13th:
6.2 inches in Allegan (Allegan County); 3.9 inches in Grand Rapids (Kent County); 3.2 inches in Hastings (Barry County); 3 inches in Grandville (Kent County); 3 inches in Sparta (Kent County); 2 inches in Holland (Allegan County); 1 inch in St. John's (Clinton County); 1 inch in Hudsonville (Ottawa County); 1 inch in Muskegon (Muskegon County); 0.4 inches in Lansing (Ingham County).

MINNESOTA, Central and South Central

NONE REPORTED.

Storm Data and Unusual Weather Phenomena

February 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

MINNESOTA, Northeast

MNZ010>012-018>021-025>026-033>038 **Koochiching - Northern St. Louis - Northern Cook / Northern Lake - Northern Itasca - Central St. Louis - Southern Lake - Southern Cook - Northern Cass - Southern Itasca - Southern Cass - Crow Wing - Northern Aitkin - Southern Aitkin - Southern St. Louis / Carlton - Pine**

01 0500CST 0 0 Ice Storm
1630CST

Freezing rain and freezing drizzle coated much of northeastern Minnesota with as much as 1/4 inch of ice. Many traffic accidents were reported.

MNZ021

Southern Cook

11 1930CST 0 0 High Wind (G49)
12 0300CST

An intense winter storm produced winds as high as 56 mph (49 knots) along the Lake Superior shoreline from Lutsen to Grand Marais.

MINNESOTA, Northwest

MNZ001>002-004>005-007>008-013>014 **West Polk - Norman - Kittson - Roseau - West Marshall - East Marshall - Pennington - Red Lake**

12 0300CST 0 0 Blizzard
1100CST

A strong north wind, behind a low pressure area over the western Great Lakes, produced ground blizzard conditions across the northern Red River Valley during the early morning hours. A peak wind of 51 mph was reported at the Hallock airport. Snow amounts were light, ranging from a trace to 2 inches. US Highway 2 was closed from East Grand Forks to Crookston. Many accidents occurred and several motorists were stranded until conditions improved later in the morning. Some schools closed for the morning, and others closed for the whole day.

MINNESOTA, Southeast

MNZ086>087-094>095 **Dodge - Olmsted - Mower - Fillmore**

11 1500CST 0 0 Winter Storm
2030CST

After a round of thunder, lightning and rain showers in the morning, a mix of freezing rain, sleet and snow changed to all snow by afternoon. Even though only 1 to 3 inches of snow accumulated, north winds gusting up to 50 mph caused whiteout conditions. KTTC TV in Rochester reported near zero visibility during the late afternoon and evening as a result of strong winds and blowing snow.

MINNESOTA, Southwest

NONE REPORTED.

MINNESOTA, West

NONE REPORTED.

MINNESOTA, West Central

NONE REPORTED.

MISSISSIPPI, Central

Copiah County

Hazlehurst 03 1820CST 0 0 50K Hail (1.75)
Golfball size hail produced minor damage to roofs and automobiles.

Copiah County

15 SW Hazlehurst 09 1340CST 0 0 Hail (1.50)

Copiah County

10 SW Hazlehurst 09 1415CST 0 0 20K Hail (1.75)
Golfball size hail caused minor damage to several roofs and automobiles.

Copiah County

Wesson 09 1431CST 0 0 30K Hail (1.75)
Golfball size hail caused minor damage to several roofs and automobiles.

Covington County

6 E Collins 09 1510CST 0 0 20K Thunderstorm Wind

Storm Data and Unusual Weather Phenomena

February 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
MISSISSIPPI, Central									
Several trees and power lines were blown down.									
Lincoln County									
Brookhaven	09	1510CST			0	0	75K		Hail (1.75)
Golfball size hail caused minor damage to many roofs and automobiles.									
Jones County									
3 N Laurel	09	1530CST			0	0			Hail (1.00)
Jefferson Davis County									
Bassfield	09	1615CST			0	0			Hail (0.75)
Leflore County									
Minter City	27	1520CST			0	0			Hail (0.75)
Lawrence County									
3 SW Sontag to 1 S New Hebron	27	1525CST 1545CST	17	440	0	0	200K		Tornado (F3)
This strong tornado moved across Northern Lawrence county through mainly rural areas knocking down many trees and power lines. Many homes received damage, particularly near the towns of Sontag and New Hebron. Several homes received major									
Grenada County									
Grenada	27	1600CST			0	0	75K		Thunderstorm Wind
A mobile home was destroyed and roof damage was reported. Windows were blown out of several automobiles. Trees were blown down throughout the city of Grenada.									
Yazoo County									
Yazoo City	27	1600CST			0	0			Thunderstorm Wind (G52)
Carroll County									
Carrollton	27	1610CST			0	0	5K		Thunderstorm Wind
Several trees were blown down.									
Montgomery County									
Countywide	27	1630CST			0	0	5K		Thunderstorm Wind
Several trees were blown down.									
Yazoo County									
Countywide	27	1630CST			0	0	35K		Thunderstorm Wind
Trees and power lines were blown down throughout the county.									
Warren County									
5 S Vicksburg	27	1631CST			0	0	2K		Thunderstorm Wind
Several trees were blown down.									
Adams County									
Kingston	27	1635CST			0	0			Hail (1.00)
Webster County									
Clarkson	27	1640CST			0	0	2K		Thunderstorm Wind
Several trees were blown down.									
Attala County									
Countywide	27	1645CST			0	0	100K		Thunderstorm Wind
Numerous trees and powerlines were blown down throughout the county. Several houses were damaged.									
Madison County									
Countywide	27	1645CST			0	0	10K		Thunderstorm Wind
Several trees were blown down throughout the county.									
Franklin County									
Roxie	27	1700CST			0	0	2K		Thunderstorm Wind
Several trees were blown down.									
Hinds County									
Jackson	27	1700CST			0	0	150K		Thunderstorm Wind
The dome over a YMCA pool blew off. Several traffic signals and signs were blown down and windows were blown out of a bank and an automobile dealership. An office building received minor roof damage. Several oak trees were blown down.									

Storm Data and Unusual Weather Phenomena

February 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
MISSISSIPPI, Central									
Clay County									
Countywide	27	1715CST			0	0	30K		Thunderstorm Wind
A barn received major damage and several roofs received minor damage. Several trees were blown down.									
Franklin County									
Meadville	27	1715CST			0	0			Hail (0.75)
Franklin County									
Meadville	27	1715CST			0	0	5K		Thunderstorm Wind
Several trees were blown down.									
Leake County									
Countywide	27	1715CST			0	0	100K		Thunderstorm Wind
Several chicken houses and tractor barns received major damage. A couple of manufactured homes received minor damage. Trees were blown down throughout the county.									
Lincoln County									
8 NW Brookhaven to 5 NW Brookhaven	27	1720CST			0	0	10K		Thunderstorm Wind
Trees were blown down and a few structures received damage.									
Lincoln County									
Countywide	27	1730CST			0	0			Hail (0.75)
Neshoba County									
Countywide	27	1735CST			0	0	35K		Thunderstorm Wind
The windows were blown out of several cars and chicken house roofs were damaged.									
Copiah County									
Countywide	27	1745CST			0	0	20K		Thunderstorm Wind
Several trees and power lines were blown down. A mobile home received damage.									
Kemper County									
De Kalb	27	1745CST			0	0	10K		Thunderstorm Wind
Several trees were blown down and some roofing was torn.									
Lincoln County									
Countywide	27	1745CST			0	0	125K		Thunderstorm Wind
Several barns were destroyed and a few mobile homes received damage. Several roofs were blown off of houses.									
Scott County									
10 NW Forest	27	1745CST			0	0	2K		Thunderstorm Wind
Several trees were blown down.									
Copiah County									
Wesson	27	1750CST			0	0	100K		Thunderstorm Wind
Many homes, a few businesses, and a church were damaged. Numerous trees and power lines were blown down.									
Lawrence County									
Oma	27	1750CST	1	50	0	0	25K		Tornado (F0)
This weak tornado blew down several trees. One tree fell on a house trapping several people inside.									
Rankin County									
Brandon	27	1750CST			0	0	15K		Thunderstorm Wind
A few trees were blown down onto a house and vehicle. A utility pole was also knocked down.									
Jefferson Davis County									
Countywide	27	1815CST			0	0	15K		Thunderstorm Wind
Trees were blown down throughout the county.									
Smith County									
Taylorsville	27	1822CST			0	0	5K		Thunderstorm Wind
Several trees were blown down.									
Jasper County									
Countywide	27	1828CST			0	0	30K		Thunderstorm Wind
Trees and power lines were blown down throughout the county. Five chicken houses were damaged in Bay Springs.									

Storm Data and Unusual Weather Phenomena

February 1999

February 1999							
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed Injured	Estimated Damage Property Crops	Character of Storm
<u>MISSISSIPPI, Central</u>							
Covington County							
Seminary	27	1830CST			00	2K	Thunderstorm Wind
A few trees were blown down.							
Scott County							
Forest	27	1830CST			00	2K	Thunderstorm Wind
Several trees were blown down.							
Forrest County							
Countywide	27	1845CST			00	2K	Thunderstorm Wind
Several trees were blown down throughout the county.							
Jones County							
Countywide	27	1845CST			00	15K	Thunderstorm Wind
Several trees and power lines were blown down.							
Clarke County							
Countywide	27	1900CST			00	2K	Thunderstorm Wind
Several trees were blown down throughout the county.							
Holmes County							
Lexington	27	1645CST			00	25K	Thunderstorm Wind
Several trees were blown down and a few houses received minor roof damage.							
<u>MISSISSIPPI, North</u>							
Marshall County							
Slayden	07	0205CST 0210CST			00	1K	Thunderstorm Wind (G53)
A couple of trees were knocked down.							
Lafayette County							
Oxford	09	2100CST 2330CST			00	1K	Flash Flood
A mobile home was flooded. Some mud slid down an embankment blocking a road.							
Lafayette County							
Oxford	09	2230CST 2235CST			00	1K	Thunderstorm Wind
A metal awning was ripped from a building.							
Pontotoc County							
Pontotoc	27	1625CST 1630CST			00	5K	Thunderstorm Wind
Several power lines were knocked down.							
Calhoun County							
Calhoun City	27	1640CST 1645CST			00	5K	Thunderstorm Wind
A few trees were blown down.							
Chickasaw County							
Chickasaw to Okolona	27	1707CST 1720CST			00	40K	Thunderstorm Wind
A trailer was overturned in Okolona. One home suffered extensive damage. Some trees and power lines were blown down.							
Lee County							
Belden	27	1707CST 1715CST			00	0.01K	Hail (0.75)
Lee County							
Mooreville	27	1712CST 1725CST			00	20K	Thunderstorm Wind
Some highway signs were blown down. Several trees and power lines were also knocked down. One tree fell on a mobile home.							
Itawamba County							
Dorsey to Fulton	27	1715CST 1725CST			00	25K	Thunderstorm Wind
A roof was blown off of a house. A 400 foot cellular phone tower was destroyed. Several other homes and shops were damaged. Several trees were blown down.							

Storm Data and Unusual Weather Phenomena

February 1999

February 1999									
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
<u>MISSISSIPPI, North</u>									
Monroe County									
Aberdeen	27	1715CST 1720CST			0	0	25K		Thunderstorm Wind
One mobile home was destroyed. A small building was blown into the street. Several trees and power lines were knocked down.									
Clay County									
Montpelier to Pheba	27	1720CST 1730CST			0	0	20K		Thunderstorm Wind
Several homes suffered roof damage. Some trees and power lines were also blown down.									
<u>MISSISSIPPI, South</u>									
Wilkinson County									
Rosetta	27	1653CST 1654CST			0	0			Hail (1.75)
Golf ball sized hail was reported by storm spotter.									
Pike County									
Summit	27	1740CST			0	0	0.50K		Thunderstorm Wind
Thunderstorm wind gusts downed several trees of the north side of Summit and just south of Lake Dixie Springs.									
<u>MISSISSIPPI, Southeast</u>									
NONE REPORTED.									
<u>MISSOURI, East</u>									
Clark County									
Kahoka	11	1205CST			0	0			Hail (1.00)
Clark County									
Kahoka	11	1205CST			0	0			Thunderstorm Wind (G52)
The sheriff office reported 1 inch hail and some trees down.									
Shelby County									
7 E Shelbina	11	1205CST			0	0			Thunderstorm Wind (G55)
The sheriff office reported several large trees down near Hunnewell Lake.									
Lewis County									
Canton	11	1210CST			0	0			Hail (1.00)
Lewis County									
Canton	11	1210CST			0	0			Thunderstorm Wind (G70)
Storm spotters estimated wind gusts around 80 mph which downed several trees. 1 inch hail also fell.									
Marion County									
7 W Palmyra	11	1225CST			0	0			Thunderstorm Wind (G61)
Marion County									
3 E Palmyra	11	1230CST			0	0			Thunderstorm Wind (G61)
The sheriff office reported many trees down along county roads both west and east of Palmyra.									
Osage County									
3 E Linn	11	1307CST			0	0			Thunderstorm Wind (G55)
The sheriff office reported trees down along Highway 89 east of Linn.									
Gasconade County									
3 E Drake	11	1320CST			0	0			Thunderstorm Wind (G60)
The sheriff reported trees down near Highway ZZ.									
Franklin County									
New Haven	11	1330CST			0	0			Thunderstorm Wind (G55)
Franklin County									
Union	11	1330CST			0	0			Thunderstorm Wind (G55)
Storm spotters reported trees down in New Have and Union.									
Franklin County									
Washington	11	1335CST			0	0			Thunderstorm Wind (G55)
Storm spotters reported trees down in Washington.									

Storm Data and Unusual Weather Phenomena

February 1999

February 1999									
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
MISSOURI, East									
Warren County									
Dutzow	11	1340CST			0	0			Thunderstorm Wind (G60)
Warren County									
Wright City	11	1345CST			0	0			Thunderstorm Wind (G60)
Storm spotters reported trees down in Wright City and Dutzow. The roof of the old city hall building in Wright City was blown off. The roof landed against the legs of the city water storage tower.									
Lincoln County									
3 SE Whiteside to 8 ENE Whiteside	11	1353CST 1358CST	6	70	0	0	100K		Tornado (F1)
A tornado formed just southeast of Whiteside and continued northeast for about 6 miles. 2 barns and 2 utility sheds were destroyed near the initial formation point. Several power poles and large trees were either snapped off or uprooted. This damage was rated at F1 while the rest of the damage path was F0. The tornado continued along County Road F destroying a few more utility buildings, downing numerous trees and power poles.									
Pike County									
2.5 SW Annada to 3.6 NE Annada	11	1359CST 1404CST	6.4	100	0	0	200K		Tornado (F2)
The same supercell that spawned the Whiteside tornado in Lincoln County created another tornado which tracked for 20 plus miles from southwest of Annada in Pike County, MO, northeast across Calhoun County, IL, then into Pike County, IL. The first segment extended for about 6 1/2 miles from southwest of Annada to the Mississippi river west of Mozier IL. The tornado started out at F2 travelling along a bluff and destroying one home and damaging 2 others. 2 of the 4 sides of the destroyed home were blown 100 to 150 yards downwind. Several trees were downed along the path as well.									
Lincoln County									
Elsberry	11	1400CST			0	0			Thunderstorm Wind (G55)
Lincoln County									
Winfield	11	1400CST			0	0			Thunderstorm Wind (G55)
Storm spotters reported trees down in Elsberry and Winfield.									
Franklin County									
Washington	11	1400CST			0	0			Thunderstorm Wind (G52)
Thunderstorm wind gusts downed some trees and power lines in Washington.									
Crawford County									
Cuba	27	1110CST			0	0			Hail (1.75)
Crawford County									
Bourbon	27	1112CST			0	0			Hail (1.00)
The county sheriff reported golfball size hail in Cuba and 1 inch hail in Bourbon.									
St. Louis County									
Ballwin	27	1130CST			0	0	50K		Hail (1.00)
St. Louis County									
Brentwood	27	1130CST			0	0			Hail (0.75)
St. Louis County									
Crestwood	27	1130CST			0	0			Hail (0.75)
St. Louis County									
Kirkwood	27	1130CST			0	0	100K		Hail (1.75)
St. Louis County									
Maplewood	27	1140CST			0	0	50K		Hail (1.00)
St. Louis (C)									
St Louis	27	1145CST			0	0	250K		Hail (1.75)
St. Louis (C)									
St Louis	27	1150CST			0	0	500K		Hail (2.25)
A hailstorm pounded St. Louis County and St. Louis City with hail up to 2 1/4 inch in diameter. Roofs and automobiles were damaged throughout the area, especially in a swath from west and south St. Louis County northeast into the City of St Louis. At a minimum, damage estimates were around \$1 million.									
Washington County									
Old Mines	27	1200CST			0	0			Hail (1.00)

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MISSOURI, East									
Washington County									
2 N Potosi	27	1205CST			0	0			Hail (1.00)
Storm spotters reported 1 inch hail in Old Mines and just north of Potosi.									
Washington County									
16 NW Potosi	27	1200CST			0	0			Hail (1.00)
A storm spotter reported 1 inch hail 10 miles south of Sullivan, or 16 miles northwest of Potosi along Highway 185.									
Jefferson County									
Antonia	27	1225CST			0	0			Hail (1.00)
Amateur radio spotters reported 1 inch hail in Antonia.									
Jefferson County									
De Soto	27	1237CST			0	0			Hail (1.00)
The county sheriff reported 1 inch hail in De Soto.									
MISSOURI, Lower									
NONE REPORTED.									
MISSOURI, Northwest									
MOZ031-039-044-046-054	Carroll - Saline - Johnson - Cooper - Henry								
	01 05	0000CST 2359CST			0	0			Flood
Minor to moderate flooding occurred along Missouri rivers and streams at the beginning of February. The flooding was a result of heavy rain on January 30 and 31. The Big Creek at Blairstown, MO, South Grand River at Urich, MO, Wakenda Creek at Carrollton, MO, Blackwater River at Valley City, MO and at Blue Lick, MO, the Petite Saline Creek at Boonville, MO as well as the Lamine River at Otterville, MO all remained at or above flood stage through February 5th.									
MOZ039>040-044-046-054	Saline - Howard - Johnson - Cooper - Henry								
	07 08	0000CST 2359CST			0	0			Flood
Moderate rainfall on February 6th and 7th resulted in minor river flooding over west central Missouri. The Big Creek at Blairstown, MO, SouthGrand River at Urich, MO, Blackwater River at Valley City, MO and at Blue Lick, MO, the Petite Saline at Boonville, MO, Moniteau Creek at Fayette, MO and the Lamine River at Otterville, MO all exceeding flood stage on February 7th and 8th.									
Cass County									
Raymore	11	0900CST			0	0	25K		Thunderstorm Wind (G60)
Outbuilding destroyed by thunderstorm winds.									
Jackson County									
Lake Winnebago Muni	11	0915CST			0	0	80K		Thunderstorm Wind (G60)
Thunderstorm winds blew a large tree into a home causing damage to several windows and a deck. Part of the roof was torn off of the Arrowhead Yacht Club.									
Carroll County									
Carrollton	11	0952CST			0	0			Thunderstorm Wind (G62)
62 MPH wind gust reported at Carrollton.									
Linn County									
8 S Brookfield	11	1025CST			0	0	30K		Thunderstorm Wind
Barn destroyed by thunderstorm winds.									
Johnson County									
(Szl)Whiteman Afb	11	1035CST			0	0			Thunderstorm Wind (G58)
58 MPH wind gust recorded at Whiteman AFB.									
Macon County									
1 N New Cambria	11	1045CST			0	0	30K		Thunderstorm Wind
Thunderstorm winds blew down a chimney and a television antenna. A small grain bin was lifted from its foundation.									

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Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
MISSOURI, Northwest									
Adair County									
Kirksville	11	1102CST			0	0			Thunderstorm Wind (G67)
67 MPH wind gust recorded at Kirksville Cannon Memorial Airport.									
Howard County									
4 NE Glasgow	11	1120CST			0	0			Thunderstorm Wind (G70)
Several large trees downed by thunderstorm winds.									
Randolph County									
3 E Cairo	11	1135CST			0	0	5K		Thunderstorm Wind
Car Port torn away from a mobile home.									
MISSOURI, Southeast									
MOZ087-111>112-114 Cape Girardeau - Scott - Mississippi - New Madrid									
	01	0001CST			0	0			Flood
	12	2200CST							
Generally minor flooding of the Mississippi River occurred in February. The primary affected areas were agricultural bottomlands, parks, and a few roads. Due to flooding of the Ohio River, locations downriver from Cairo experienced flooding from late January through about February 10. At New Madrid, where flood stage is 34 feet, the river crested at 37.1 feet on the 5th. A separate flood crest came down the river past Cape Girardeau around the 10th. The crest at Cape Girardeau on the 10th was only about 1.5 feet above flood stage.									
MOZ100 Wayne									
	07	1800CST			0	0	5K		Flood
	08	1800CST							
Heavy rain over the hilly terrain of central Missouri caused the St. Francis River to flood in the vicinity of Patterson. At Patterson, where flood stage is 16 feet, the river crested at 22.34 feet around 230 A.M. on the 8th. This resulted in minor to moderate flooding of low-lying areas. It was the highest crest at Patterson since May of 1997.									
MOZ108 Ripley									
	09	0100CST			0	0	3K		Flood
		1400CST							
Heavy rain over the hilly terrain of central Missouri caused the Current River to rise above flood stage. At Doniphan, where flood stage is 13 feet, the crest of 15.1 feet occurred at 6 A.M. This resulted in flooding of low-lying agricultural areas and roadways.									
Bollinger County									
2 E Marble Hill	11	1543CST			0	0	50K		Thunderstorm Wind
Thunderstorm winds blew a house trailer off its foundation and partially unroofed a machine shed. A large old building was destroyed.									
Perry County									
Perryville	11	1551CST			0	0			Thunderstorm Wind (G50)
Scott County									
Chaffee	11	1648CST			0	0	20K		Thunderstorm Wind
Thunderstorm winds blew a roof off a house. Ninety percent of the roof was destroyed. Debris from the roof damaged another house nearby. In the same area, power lines were down.									
Mississippi County									
6 W Charleston	11	1740CST			0	0	10K		Thunderstorm Wind
A utility pole was blown over.									
Perry County									
Silver Lake to Farrar	27	1330CST			0	0	6M		Hail (2.00)
An extensive hailstorm pounded much of Perry County with hailstones up to 2 inches in diameter, which is slightly bigger than a golf ball. In downtown Perryville, hailstones measuring up to 2 inches in diameter fell for 10 to 12 minutes. Insurance companies estimated damage in excess of 5 million dollars. Windows were broken out of homes and vehicles, skylights were broken, and vinyl siding was damaged. Most of the hail damage in Perryville was on the southern side of town. At the Perry County Sheriff Department, all the police vehicles were dented, and a skylight in the main cell block broke. All 200 vehicles at an auto dealership near I-55 and Route 51 received damage, including some broken windshields.									
Perry County									
Farrar	27	1340CST			0	0	25K		Thunderstorm Wind

Storm Data and Unusual Weather Phenomena

February 1999

February 1999									
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
Killed		Injured		Property		Crops			
<u>MISSOURI, Southeast</u>									
Severe thunderstorm winds uprooted large trees and knocked a shed off its foundation.									
Wayne County									
Greenville	27	1355CST			0	0			Hail (0.88)
Bollinger County									
6 N Marble Hill	27	1422CST			0	0			Hail (1.75)
<u>MISSOURI, Southwest</u>									
Taney County									
Countywide	06	2000CST 2300CST			0	0			Flood
Douglas County									
Countywide	06 07	2045CST 0000CST			0	0	30K		Flood
Ozark County									
Countywide	06 07	2100CST 0000CST			0	0			Flood
Shannon County									
Countywide	06 07	2100CST 0400CST			0	0			Flood
Texas County									
Countywide	06 07	2130CST 0230CST			0	3	30K		Flood
Wright County									
Countywide	06 07	2130CST 0230CST			0	0			Flood
Dent County									
Countywide	07	0000CST 0400CST			0	0			Flood
An area of 2.5 to 6 inches of rain fell over a portion of southwest and south central Missouri. The heaviest rain fell in eastern Douglas and Texas Counties. Numerous roads were closed due to high water.									
Three cars were swept off of low water crossings in Texas County. In one incident, three people were treated for hypothermia after their car was swept off of the road along the Big Piney River about 3 miles north of Houston in Texas County. They waited in cold water for about an hour before being rescued.									
Several roads and bridges in Texas and Douglas Counties were damaged or destroyed.									
Ozark County									
Isabella	06	2200CST			0	0	25K		Thunderstorm Wind
Thunderstorm winds damaged boats and docks and uprooted large trees on HH Highway near Isabella. Several buildings also sustained roof damage. Damage was confined to a small area.									
Jasper County									
Joplin Arpt	11	0957CST			0	0			Thunderstorm Wind (G58)
Dade County									
Greenfield	11	1032CST			0	0			Tstm Wind/Hail
Nickel sized and wind gusts estimated at 52 knots were reported.									
Polk County									
Bolivar	11	1105CST			0	0			Thunderstorm Wind (G52)
Greene County									
5 NW Republic	11	1120CST			0	0	0		Thunderstorm Wind
Thunderstorm winds blew down several trees.									
Stone County									
Reeds Spg	11	1130CST			0	0	5K		Thunderstorm Wind
A trailer sustained roof damage.									
Dallas County									
Buffalo	11	1145CST			0	0	0		Thunderstorm Wind
Thunderstorm winds downed trees.									

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Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
MISSOURI, Southwest									
Webster County									
Marshfield	11	1200CST			0	0	70K		Thunderstorm Wind
Thunderstorm winds estimated at 70 knots lifted a portion of a metal roof off of a hardware warehouse/showroom. A portion of the roof fell into into a nearby electrical substation causing a power outage in Marshfield. A nearby van was also damaged.									
Camden County									
Osage Beach	11	1200CST			0	0			Thunderstorm Wind (G57)
Wright County									
1 N Grovespring	11	1225CST			0	0	0		Thunderstorm Wind
Thunderstorm winds blew a tree down onto Highway TT.									
Miller County									
4 W Brumley	11	1230CST			0	0	0		Thunderstorm Wind
Thunderstorm winds blew a tree down onto Highway 42.									
Pulaski County									
Ft Leonard Wood Aaf	11	1251CST			0	0			Thunderstorm Wind (G62)
Wright County									
Hartville	27	1045CST			0	0			Hail (0.75)
Wright County									
Mansfield	27	1110CST			0	0			Hail (0.75)
Phelps County									
Edgar Spgs	27	1130CST			0	0			Hail (0.75)
Texas County									
Licking	27	1135CST			0	0			Hail (0.75)
Texas County									
7 N Houston	27	1150CST			0	0			Hail (0.75)
Douglas County									
Ava	27	1154CST			0	0			Hail (0.88)
Ozark County									
Wasola	27	1245CST			0	0			Hail (0.75)
Oregon County									
6 W Alton	27	1330CST			0	0			Hail (1.75)
Oregon County									
Myrtle	27	1425CST			0	0			Hail (1.00)
MONTANA, Central									
MTZ009									
Rocky Mountain Front									
01	0400MST				0	0			High Wind (G77)
02	2000MST								
HEART BUTTE AT 0127 MST/2ND									
MTZ010									
Eastern Glacier / Eastern Pondera / Toole / Liberty									
01	0400MST				0	0			High Wind (G52)
02	2000MST								
CUT BANK AWOS AT 1414/2ND AND 11SE VALIER 0655 MST/2ND.									
MTZ011									
Blaine / Chouteau / Hill									
01	1600MST				0	0			High Wind (G72)
02	2000MST								
CHINOOK 11S AT 1748/2ND...FT BELKNAP G64 KT AT 2200/2ND.									
MTZ012									
Cascade / Eastern Teton									
01	1600MST				0	0			High Wind (G59)
02	2000MST								
13SE BELT AT 0515/2ND...GTF ASOS G58KT 1503/2ND...9S ULM G58KT 1450/2ND MST...6NNE FAIRFIELD G55KT 1443 MST/2ND...CASCADE 5S G53KT AT 0130 MST.									
MTZ013									
Fergus / Judith Basin									
01	1600MST				0	0	5K		High Wind (G67)
02	2000MST								

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Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage	Crops	Character of Storm
<u>MONTANA, Central</u>									
MTZ009	6S GARNEILL 0330 MST AND 1E ROY AT 0502 MST.								
	Rocky Mountain Front								
	02	0400MST 1700MST			0	0			Blizzard
MTZ008	EAST GLACIER AND HEART BUTTE LOW VISIBILITY								
	Beaverhead								
	02	1900MST			0	0			High Wind (G55)
MTZ014	10SW GRANT								
	Broadwater / Jefferson / Meagher / Central And Southern Lewis And Clark								
	02	2100MST			0	0	100K		High Wind (G61)
MTZ015	03	0400MST							
	HLN ASOS ESTIMATED...BOULDER 57KT AT 0223/3RD...SILVER CITY 57KT AT 2328.								
	Gallatin / Madison								
MTZ015	02	2116MST			0	0	15K		High Wind (G52)
	BOZEMAN 6E								
	Gallatin / Madison								
MTZ010	06	1100MST			0	0			Heavy Snow
	07	0500MST							
	8 TO 10 INCHES AT WEST YELLOWSTONE								
MTZ011	Eastern Glacier / Eastern Pondera / Toole / Liberty								
	06	1600MST			0	0			High Wind (G51)
	07	1200MST							
MTZ011	VALIER 13SE AT 1100								
	Blaine / Chouteau / Hill								
	06	1600MST			0	0			High Wind (G57)
MTZ012	07	1200MST							
	CHINOOK 11S AT 1200/7TH								
	Cascade / Eastern Teton								
MTZ013	06	1600MST			0	0			High Wind (G53)
	07	1200MST							
	BELT 13SE AT 0730.								
MTZ009	Fergus / Judith Basin								
	06	1600MST			0	0			High Wind (G55)
	07	1200MST							
MTZ013	WINDHAM 2NW AT 2230.								
	Rocky Mountain Front								
	06	1700MST			0	0			Winter Storm
MTZ013	07	1200MST							
	EAST GLACIER 6 TO 10 INCHES								
	Fergus / Judith Basin								
MTZ011	08	0430MST			0	0			High Wind (G54)
	ROY 1E.								
	Blaine / Chouteau / Hill								
MTZ012	08	0946MST			0	0			High Wind (G59)
	CHINOOK 11S...FT BELNAP 53KT AT 1100.								
	Cascade / Eastern Teton								
MTZ010	09	1100MST			0	0			Winter Storm
	10	0500MST							
	6 INCHES GREAT FALLS...FAIRFIELD 6 INCHES...NIEHART 8NNW 8 INCHES								
MTZ010	Eastern Glacier / Eastern Pondera / Toole / Liberty								
	09	1430MST			0	0			Winter Storm
	10	0500MST							
GOLD BUTTE 7 INCHES									

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<u>MONTANA, Central</u>									
MTZ009	Rocky Mountain Front								
	09	1600MST			0	0			Winter Storm
	10	0800MST	EAST GLACIER 6 INCHES...GIBSON DAM 6 INCHES						
MTZ015	Gallatin / Madison								
	09	2200MST			0	0			Heavy Snow
	10	1700MST	HEBGEN DAM 14 INCHES...ENNIS 7 INCHES...GALLATIN GATEWAY 6 INCHES						
MTZ008	Beaverhead								
	09	2200MST			0	0			Heavy Snow
	10	1700MST	LAKEVIEW 9 INCHES						
MTZ013	Fergus / Judith Basin								
	09	2320MST			0	0			Winter Storm
	10	0500MST	UTICA 6 INCHES						
MTZ014	Broadwater / Jefferson / Meagher / Central And Southern Lewis And Clark								
	23	0800MST			0	0			Heavy Snow
		1300MST	6 INCHES AUSTIN 1W						
MTZ011	Blaine / Chouteau / Hill								
	23	1219MST			0	0			High Wind (G58)
			CHINOOK 11S...FT BELKNATP G50 AT 1300/23RD.						
MTZ011	Blaine / Chouteau / Hill								
	25	1800MST			0	0			Heavy Snow
	26	1200MST	WARRICK 2NW 8 INCHES						
MTZ015	Gallatin / Madison								
	25	1800MST			0	0			Heavy Snow
	26	1200MST	NORRIS 6 INCHES						
<u>MONTANA, East</u>									
MTZ016>017-021>023-026	Phillips - Valley - Petroleum - Garfield - McCone - Prairie								
	02	2100MST			0	0			High Wind (G61)
	03	0300MST	A strong storm system brought high winds to portions of north central and eastern Montana. Wind speeds were sustained in the 45 to 55 mph range with the highest wind gusts at 70 mph at Chain Buttes in Petroleum County and 69 mph reported at Zortman in Phillips County						
<u>MONTANA, South</u>									
MTZ028-031-034>035-038	Wheatland - Rosebud - Stillwater - Yellowstone - Big Horn								
	01	2000MST			0	0			High Wind (G80)
	03	0400MST	The combination of a strong high pressure area over the great basin and an intense low pressure system which tacked eastward across southwestern Canada produced strong southwest to west winds across South Central and southeastern Montana. Livingston reported sustained winds greater than 50 mph and wind gusts as high as 89 mph. A gust of 92 mph was reported 6 miles south of Livingston. Several trees and power lines were downed in Park County and power was lost to over 1500 homes for two hours. In Stillwater County, wind gusts as high as 91 mph were reported near Nye. In Yellowstone County, wind gusts as high as 68 mph were reported in Billings, and in Laurel the canopy was blown off of the Town Pump Service Station.						
MTZ028	Wheatland								
	22	1700MST			0	0			High Wind (G66)
	23	1200MST	A strong Pacific low pressure system moving east across Southern Canada combined with high pressure over Utah to produce strong southwest winds across the Upper Yellowstone Valley. Livingston reported a peak gust of 76 mph at 116 am on February 23.						

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February 1999									
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>MONTANA, West</u>									
MTZ001>004	Kootenai/Cabinet Region - West Glacier Region - Flathead/Mission Valleys - Lower Clark Fork Region								
01	2000MST				0	0			Winter Storm
02	1515MST								
Troy-5.5 inches new snow									
Stahl Peak-9 inches new snow									
Lookout-11 inches new snow									
Essex-7 inches new snow									
Poorman Creek-9inches new snow									
Flattop Mtn-9 inches new snow									
Lost Trail Pass-12 inches new snow									
Hot Springs-47 mph wind gust									
Pablo Dam-63 mp wind gust									
Angel Point-46 mph wind gust									
MTZ001>002-004-006>007-043	Kootenai/Cabinet Region - West Glacier Region - Lower Clark Fork Region - Bitterroot / Sapphire Mountains - Butte / Pintlar Region - Blackfoot Region								
06	0400MST				0	0			Winter Storm
07	1530MST								
Banfield Mountain-10 inches new snow									
Poorman Creek-8 inches new snow									
Flattop Mountain-10 inches new snow									
Lookout Pass- 16 inches new snow									
Hoodo Basin-14 inches new snow									
North Fork Jocko-12 inches new snow									
Lolo Pass-9 inches new snow									
Lookout Pass-53 mph wind gust									
Kriley Creek-51 mph wind gust									
Angel point-43 mph wind gust									
MTZ005>006	Missoula / Bitterroot Valleys - Bitterroot / Sapphire Mountains								
09	1250MST				1	0			Heavy Snow
	2115MST								
Conner-12 inches new snow									
Stevensville-8 inches new snow									
Hamilton-12 inches new snow									
Numerous car wrecks were reported due to heavy snow and slick roads, including a fatal crash near Arlee and a seven car pileup north of Hamilton. M49VE									
MTZ001>003-006-043	Kootenai/Cabinet Region - West Glacier Region - Flathead/Mission Valleys - Bitterroot / Sapphire Mountains - Blackfoot Region								
18	2300MST				0	0			Heavy Snow
19	0500MST								
Coram-6 inches new snow									
Swan Lake-7 inches new snow									
Lookout Pass-12 inches new snow									
Noisy Basin-8 inches new snow									
Twin Lakes-9 inches new snow									
Stuart Mountain-7 inches new snow									
Lolo Pass-8 inches new snow									
<u>NEBRASKA, Central</u>									
NEZ007-010-026-028>029	Boyd - Holt - Blaine - Garfield - Wheeler								
11	1000CST				0	0			High Wind (G36)
	1145CST								
Sustained wind of 40 mph or higher was recorded on automatic observation equipment at O'Neill in Holt County. In the rest of the affected area the information was obtained from cooperative observers and anecdotal reports by the public. Gust to over 50 mph were also reported. Damage was limited to a few road signs .									
NEZ008>010	Brown - Rock - Holt								
17	0900CST				0	0			Heavy Snow
	2100CST								
Local twelve hour snow amounts of 6 to 9 inches were reported in southern Brown County, southern Rock County, and southwest									

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Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

NEBRASKA, Central

Holt County of North Central Nebraska.

NEZ005>010-024>029-036>038-059 **Cherry - Keya Paha - Boyd - Brown - Rock - Holt - Hooker - Thomas - Blaine - Loup - Garfield - Wheeler - Mcpherson - Logan - Custer - Lincoln**

21 2300CST 0 0 Winter Storm
23 1200CST

A major winter storm produced heavy snow and strong wind in a most of central and north central Nebraska, and parts of southwest Nebraska. Snowfall amounts were generally 6 to 8 inches with the heaviest snow in eastern Custer County, eastern Blaine County, western Loup County, extreme southeast Brown County, and extreme southwest Rock County where 10 to 12 inches fell.

NEBRASKA, East

NEZ011>012-015>018-030>034-042>045-050>053-065>066-078-088>089 **Knox - Cedar - Thurston - Antelope - Pierce - Wayne - Boone - Madison - Stanton - Cuming - Burt - Platte - Colfax - Dodge - Washington - Butler - Saunders - Douglas - Sarpy - Seward - Lancaster - Saline - Jefferson - Gage**

11 1000CST 0 0 High Wind (G50)
1600CST

High wind and snow abruptly brought winter weather back to residents of eastern Nebraska a day after record setting highs in the upper 60s to upper 70s were recorded. A sustained northwest wind of 35 to 40 mph with gusts to 60 mph was accompanied by snowfall of around 1 to 3 inches. This created a period of near whiteout conditions across the region. Besides the sustained winds of near 40 mph, higher wind gusts included 60 mph near Gretna, 55 mph at Norfolk, 53 mph in Fremont and 50 mph at Offutt.

NEZ031>033-042>045-051>053 **Madison - Stanton - Cuming - Platte - Colfax - Dodge - Washington - Saunders - Douglas - Sarpy**

18 0500CST 0 0 Winter Storm
1900CST

Freezing drizzle and sleet changed over to snow and quickly became heavy during the morning of 2/18/99. Snowfall of 6 to 8 inches was common across the area. Significant precipitation began near Norfolk around 500 am but didn't start in the Omaha area until around 1000 am, while the snow ended for the most part in Norfolk around 300 pm and in Omaha around 700 pm. Heavier snow totals included 8 inches in Madison, 7.5 inches at Howells and 7 inches at Arlington, West Point and Lindsay. Around 6 inches fell over much of the Omaha Metro area.

NEZ011>012-015>018-030>034-042>045-050>053-065>068-090>093 **Knox - Cedar - Thurston - Antelope - Pierce - Wayne - Boone - Madison - Stanton - Cuming - Burt - Platte - Colfax - Dodge - Washington - Butler - Saunders - Douglas - Sarpy - Seward - Lancaster - Cass - Otoe - Johnson - Nemaha - Pawnee - Richardson**

22 0500CST 0 0 Winter Storm
2000CST

A Winter storm dumped 7 to as much as 12 inches of snow over most of eastern Nebraska and western Iowa. The storm was accompanied by an east to southeast wind of 15 to 30 mph which caused some blowing and drifting of the snow and caused schools to cancel classes either all day Monday (02/22/99) or Monday afternoon as well as Tuesday. Six to 9 inches of snow was reported from Knox county southeast through Norfolk and Columbus then southeast through Lincoln to Falls City. Eight to 11 inches generally fell from Cuming county southeast through the Omaha/Council Bluffs area then south to Nebraska City. Heavier amounts in eastern Nebraska included...12 inches at Union, 11 inches in Papillion, 10 inches in Bellevue, Gretna and Prague and 9 inches at West Point, Creighton and parts of Omaha.

NEBRASKA, Extreme Northeast

NEZ013>014 **Dixon - Dakota**

22 0700CST 0 0 Heavy Snow
2300CST

Snowfall of 6 to 9 inches slowed transportation. The snow also forced schools and some businesses to close early.

NEBRASKA, Extreme Southwest

NONE REPORTED.

Storm Data and Unusual Weather Phenomena

February 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

NEBRASKA, South Central

NEZ039>041-046>049-060>064-072>077-082>087 Valley - Greeley - Nance - Sherman - Howard - Merrick - Polk - Dawson - Buffalo - Hall - Hamilton - York - Gosper - Phelps - Kearney - Adams - Clay - Fillmore - Furnas - Harlan - Franklin - Webster - Nuckolls - Thayer

10 1800CST 0 4 35K 0 Winter Storm
11 2300CST

After enjoying record warmth, a sharp and fast moving cold front brought wind driven snow and plummeting temperatures to south-central Nebraska. Up to three inches of snow along with wind gusts over 50 mph caused near "whiteout" conditions. Aurora and Lexington both recorded wind gusts of 52 mph at the height of the storm. Numerous schools were closed across the region.

The slick roads and poor visibility were to blame, in part, for several accidents across the region. A tractor-trailer truck rear ended two vehicles three miles north of Hebron resulting in one minor injury. Both vehicles were totaled. A van was overturned just east of Kearney on Interstate 80 causing two injuries. One more vehicle slid into the ditch just south of Minden resulting in one minor injury.

NEZ039>041-046>049-060>064-073-075>077-085>087 Valley - Greeley - Nance - Sherman - Howard - Merrick - Polk - Dawson - Buffalo - Hall - Hamilton - York - Phelps - Adams - Clay - Fillmore - Webster - Nuckolls - Thayer

22 0400CST 0 0 0 0 Winter Storm
2350CST

One of the more widespread and heavy snowfall events blanketed a portion of south-central Nebraska with up to ten inches of snow. The snow began falling before sunrise and didn't stop until around midnight that evening. By the storms end, ten inches of snow was reported in the Greeley area, 8 inches in Ord with widespread 4 to 8 inch amounts north and east of the Grand Island area. Fortunately, significant wind was not a problem during this event, but most schools in the heavier snow areas canceled classes or closed early nonetheless.

NEBRASKA, West

NEZ055

Cheyenne

10 1350MST 0 0 5K 0 High Wind (G36)

Strong winds overturned a semi tractor-trailer which was westbound on Interstate 80 west of Sidney.

NEVADA, North

NVZ008>009

Southwest And South Central Elko - Southeast Elko

04 1800PST 0 0 Heavy Snow
05 0200PST

Four inches of new snow was reported at Wells and Spring Creek.

NVZ007>009-011>012

Northern Elko - Southwest And South Central Elko - Southeast Elko - White Pine - Lander/Eureka

09 1300PST 0 0 Heavy Snow
10 0400PST

NVZ008>009-011

Southwest And South Central Elko - Southeast Elko - White Pine

09 1321PST 0 0 8K High Wind (G58)
1835PST

A strong storm system brought high winds and heavy snow to much of northern and east central Nevada. Some reported wind gusts were: 67 mph at Wells, 62 mph at both Elko and Spring Creek, 56 mph at Ely, and 54 mph at Winnemucca. Several large trees were blown down in Elko and Ely. The Toki-Ona restaurant in Elko had damage to its sign and the Pizza Hut in Ely had roof damage.

Heavy snowfall was also reported across portions of northern and east central Nevada. Some amounts included: 8 inches at Wild Horse, 7 inches at Eureka, 6 inches at Ely and Lamoille, and 3-4 inches between Elko and Wendover.

NVZ011

White Pine

09 1800PST 0 0 3K High Wind
2000PST

Strong winds in McGill and Ely caused some roof damage and blew out some windows in Ely.

NVZ007>008

Northern Elko - Southwest And South Central Elko

21 0600PST 0 0 Heavy Snow
1100PST

3-4 inches of snow was reported at Tuscarora and Wild Horse.

Storm Data and Unusual Weather Phenomena

February 1999

									February 1999
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
<u>NEVADA, South</u>									
NVZ014	Esmeraldo/Central Nye								
09	1202PST				0	0			High Wind (G53)
Strong gradient winds associated with a low pressure system swept across central Nevada. The Esmeralda County Sheriff reported a wind gust to 61 mph. No damage was reported.									
<u>NEVADA, West</u>									
NVZ002	Greater Lake Tahoe Area								
06	0515PST				0	0	0		Heavy Snow
10	0515PST								
4 day storm total of 6-8 feet of snow at Mt. Rose Ski Area.									
NVZ002	Greater Lake Tahoe Area								
06	0630PST				0	0	0		Heavy Snow
07	0630PST								
24 hour snow total of 18-20 inches at Diamond Peak Ski Area.									
NVZ002	Greater Lake Tahoe Area								
06	1046PST				0	0	0		Heavy Snow
07	1046PST								
24 hour snow total of 24 inches near Incline Village, elevation 7000 feet.									
NVZ003	Greater Reno/Carson City/Minden Area								
06	1100PST 2000PST				0	0	50K		High Wind
A strong low pressure system moving in from the Pacific Ocean produced damaging high winds in the Reno area on 2/6/99. Many large trees were uprooted, power poles blown over, roofs damaged, and fences blown down. The highest wind gust recorded was 105 mph in south Reno.									
NVZ003	Greater Reno/Carson City/Minden Area								
06	1146PST				0	0	0		High Wind (G50)
Peak wind gust of 58 mph recorded 6 miles northeast of Gardnerville.									
NVZ003	Greater Reno/Carson City/Minden Area								
06	1200PST 1800PST				0	0	100K		High Wind
Carson City fire department and media reports of major wind damage throughout the Carson City area. Roof damage to hotel-casino as well as many retail stores. Numerous trees and power poles blown down causing widespread phone and power outages. Large car dealership sign blown down and completely destroyed. Rainfall that followed the winds was responsible for damage to merchandise in stores with roof damage.									
NVZ003	Greater Reno/Carson City/Minden Area								
06	1201PST				0	0	0		High Wind (G53)
Peak wind gust of 61 mph recorded 6 miles northeast of Gardnerville.									
NVZ003	Greater Reno/Carson City/Minden Area								
06	1258PST 1331PST				0	0	0		High Wind (G71)
Wind gust ranging from 72-82 mph recorded in south Reno.									
NVZ003	Greater Reno/Carson City/Minden Area								
06	1300PST				0	0	0		High Wind (G64)
Peak wind gust of 74 mph with sustained winds 50-55 mph recorded 11 miles south of Reno.									
NVZ003	Greater Reno/Carson City/Minden Area								
06	1415PST				0	0	0		High Wind (G74)
Peak wind gust of 85 mph recorded in southwest Reno.									
NVZ003	Greater Reno/Carson City/Minden Area								
06	1418PST				0	0	0		High Wind (G91)
Peak wind gust of 105 mph recorded in south Reno.									
NVZ003	Greater Reno/Carson City/Minden Area								
06	1435PST				0	0	0		High Wind (G78)
Peak wind gust of 90 mph recorded in southwest Reno.									
NVZ003	Greater Reno/Carson City/Minden Area								
06	1450PST				0	0	5K		High Wind (G83)

Storm Data and Unusual Weather Phenomena

February 1999

									February 1999
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Killed	Injured	Estimated Damage	Crops	Character of Storm
<u>NEVADA, West</u>									
									Peak wind gust of 95 mph recorded in south Reno. Trees down onto power lines, flying debris including shingles blown off of roofs, numerous fences down.
NVZ003									Greater Reno/Carson City/Minden Area
	06	1455PST			0	0	0		High Wind (G80)
									Peak wind gust of 92 mph with sustained winds of 50-60 mph recorded in southwest Reno.
NVZ003									Greater Reno/Carson City/Minden Area
	06	1500PST			0	0	0		High Wind (G90)
									Peak wind gust of 104 mph recorded in south Reno.
NVZ001									Mineral/Southern Lyon
	06	1525PST			0	0	0		High Wind (G70)
									Sustained winds of 50-60 mph with gusts to 80 mph recorded in Smith Valley.
NVZ004									Western Nevada Basin And Range
	06	1530PST			0	0	0		High Wind (G55)
									Peak wind gust of 63 mph with sustained winds 30-40 mph recorded in Stagecoach.
NVZ003									Greater Reno/Carson City/Minden Area
	06	1615PST			0	0	0		High Wind (G65)
									Peak wind gust of 75 mph with numerous other gusts between 68-71 mph recorded at Stead.
NVZ003									Greater Reno/Carson City/Minden Area
	06	1630PST			0	0	0		High Wind (G52)
									Peak wind gust of 60 mph recorded by Nevada Dept. of Transportation automated weather sensor.
NVZ002									Greater Lake Tahoe Area
	06	1700PST			0	0	0		Heavy Snow
	07	1700PST							
									24 hour snow total of 12 inches at Incline Village, elevation 6500 feet.
NVZ002									Greater Lake Tahoe Area
	06	1700PST			0	0	0		Heavy Snow
	07	1700PST							
									24 hour snow total of 22 inches at Dagget Pass, elevation 7380 feet.
NVZ003									Greater Reno/Carson City/Minden Area
	06	1725PST			0	0	5K		High Wind
									Law enforcement report of travel trailer blown over with persons temporarily trapped inside near Cold Springs, north of Reno.
NVZ003									Greater Reno/Carson City/Minden Area
	06	1743PST			0	0	0		High Wind (G132)
									Peak wind gust of 152 mph recorded atop Virginia Peak by NWS Alert wind sensor.
NVZ003									Greater Reno/Carson City/Minden Area
	06	2020PST			0	0	3K		High Wind
									3 power poles blown over on Red Rock Road near Stead.
NVZ001									Mineral/Southern Lyon
	07	1930PST			0	0	15K		High Wind (G58)
									A Ford Bronco towing a travel trailer overturned due to high winds on Highway 95 near Walker Lake. Winds gusting to 67 mph forced closure of the highway between Hawthorne and Schurz.
NVZ001									Mineral/Southern Lyon
	07	2100PST			0	0	2K		High Wind (G52)
									Sustained winds of 25-40 mph gusting to 60 mph in Smith Valley. Reports of power poles blown over.
NVZ003									Greater Reno/Carson City/Minden Area
	09	0540PST			0	0	0		Heavy Snow
		1740PST							
									Storm total of 6 inches of snowfall recorded 5 miles south of Carson City, elevation 4700 feet.
NVZ001									Mineral/Southern Lyon
	09	1220PST			0	0	0		High Wind (G68)
									Peak wind gust of 78 mph recorded at Walker Lake.
NVZ001									Mineral/Southern Lyon
	09	1255PST			0	0	0		High Wind (G73)
									Peak wind gust of 84 mph recorded at Walker Lake.

Storm Data and Unusual Weather Phenomena

February 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
NEVADA, West									
NVZ001			Mineral/Southern Lyon						
	09	1520PST			0	0	5K		High Wind (G74)
	High winds near Walker Lake responsible for broken windows on cars and buildings. A semi truck-trailer was blown over on Highway 95 north of Hawthorne. Peak wind recorded was 85 mph, which was the highest speed the anemometer could read. No injuries reported.								
NVZ003			Greater Reno/Carson City/Minden Area						
	13	2113PST			0	0	0		High Wind (G55)
	Peak wind gust of 63 mph recorded 6 miles NE of Gardnerville.								
NVZ003			Greater Reno/Carson City/Minden Area						
	18	0913PST			0	0	0		High Wind (G55)
	Peak wind gust of 63 mph recorded in Washoe Valley.								
NVZ004			Western Nevada Basin And Range						
	18	1100PST 1600PST			0	0	50K		High Wind (G60)
	High winds in Dayton and Stagecoach caused damage to large signs, knocked down trees and blew roofs off of structures. A historic barn built in the 1860's collapsed under the fierce windstorm. Highest wind speed recorded in the immediate area was 69 mph at Stagecoach.								
NVZ003			Greater Reno/Carson City/Minden Area						
	18	1103PST			0	0	0		High Wind (G60)
	Peak wind gust of 60 knots recorded at the NWSFO Reno.								
NVZ003			Greater Reno/Carson City/Minden Area						
	18	1150PST			0	0	0		High Wind (G56)
	Peak wind gust of 65 mph recorded at Virginia Foothills.								
NVZ003			Greater Reno/Carson City/Minden Area						
	18	1203PST			0	0	0		High Wind (G75)
	Peak wind gust of 86 mph recorded in south Reno.								
NVZ001			Mineral/Southern Lyon						
	18	1340PST			0	1	30K		High Wind
	High winds at Walker Lake blew over a pickup truck pulling a 30 foot travel trailer on Highway 95.								
NVZ003			Greater Reno/Carson City/Minden Area						
	18	1520PST			0	0	5K		High Wind (G78)
	Peak wind gust of 90 mph in southwest Reno. Fences blown down in neighborhood.								
NVZ002			Greater Lake Tahoe Area						
	20	1600PST			0	0	0		Heavy Snow
	21	0515PST							
	12-18 inches of snow in 13 hours at Mt. Rose Ski Area.								
NVZ002			Greater Lake Tahoe Area						
	20	1800PST			0	0	0		Heavy Snow
	21	0615PST							
	12-18 inches of snow in 12 hours at Diamond Peak Ski Area.								

NEW HAMPSHIRE, North and Central

NOT RECEIVED.

NEW HAMPSHIRE, Southern

NONE REPORTED.

NEW JERSEY, Northeast

NONE REPORTED.

Storm Data and Unusual Weather Phenomena

February 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

NEW JERSEY, South and Northwest

NJZ001-007>010-012>026 **Sussex - Warren - Morris - Hunterdon - Somerset - Middlesex - Western Monmouth - Eastern Monmouth - Mercer - Salem - Gloucester - Camden - Burlington - Western Ocean - Cumberland - Western Atlantic - Western Cape May - Eastern Cape May - Eastern Atlantic - Eastern Ocean**

01	0000EST	0	0	0	0	Drought
02	2359EST					

The combination of the recent heavy precipitation during January and the mild temperatures that allowed water to soak into the soil and raise ground water levels permitted the Delaware River Basin Commission (DRBC) on February 2nd to lift their drought warning. Concurrently the New Jersey State Department of Environmental Protection lifted its drought warning for seven northern counties (not covered by the DRBC declaration) in the state including Morris and Somerset Counties. The water level in the thirteen reservoirs in the northern part of the state has risen from 44 to 74 percent of capacity as of February 2nd. On the heels of the third wettest January on record for the state, February's monthly precipitation total on a county weighted average was a few tenths of an inch (or about 85% of normal) below normal.

NJZ001-007>008 **Sussex - Warren - Morris**

01	2100EST	0	0	0	Freezing Rain
02	0400EST				

A low pressure system developed along the Gulf Coast the morning of February 1st. A broad southwest flow preceding the low brought warmer air aloft and precipitation into the Middle Atlantic States. A high pressure system that retreated from New Jersey into the Canadian Maritimes on the morning of the 2nd kept enough cold air near the ground for precipitation to start as freezing rain in sections of Warren and Morris Counties and most of Sussex County the evening of the 1st. The low tracked northeast along the coastal plain and brought in milder air that raised temperatures above the freezing mark in all areas by the morning of the 2nd. Precipitation was light and intermittent during the evening of the 1st and became steadier after midnight. Temperatures rose above the freezing mark before the heavier rain moved north. Around one tenth of an inch of ice accrued on exposed surfaces before the change to plain rain. Untreated roadways and walkways were treacherous.

NJZ001 **Sussex**

07	1500EST	0	0	0	Snow
08	0500EST				

Snow fell over Northwest New Jersey from Sunday afternoon the 7th into the early Monday morning on the 8th. Accumulations in Sussex County averaged around three inches. Accumulations across Warren, Morris, Northern Hunterdon and Northern Somerset Counties averaged around two inches. The snow fell at a fairly consistent rate. This combined with the heaviest precipitation occurring on a Sunday night reduced the number of accidents. Flurries lingered into the morning of the 8th, but the steady snow was over well before the morning commute. Across most of the northwest part of the state the snow mixed with or changed to rain during the evening of the 7th. Accumulations included 3.5 inches in Sussex (Sussex County), 3.2 inches in Montague (Sussex County), 3 inches in Wantage (Sussex County), 2.2 inches in Stewartsville (Warren County), 2 inches in Newton (Sussex County), Flemington (Hunterdon County) and Long Valley (Morris County) and 1.8 inches in Somerville (Somerset County).

A low pressure system was located in the central Ohio Valley the morning of the 7th. A second low formed along the primary low's warm frontal boundary in North Carolina the evening of the 7th. This low became the main low and quickly moved offshore on the 8th. By 7 a.m. EST on the 8th, the low was already about 275 statute miles east of Fenwick Island, Delaware. The fast track moved precipitation in and out of the area quickly and prevented heavy snow from occurring.

Camden County

Cherry Hill **12 1825EST 0.5 40 0 0 100K 0 Tornado (F1)**

A squall line of strong to locally severe thunderstorms spawned a weak tornado (F1 on the Fujita Scale) as it moved through southeastern Cherry Hill. The tornado briefly touched down in the Kate Court and Partridge Lane area and caused major damage to one house and moderate damage to about 12 other homes. Several sheds were destroyed. There was also considerable shingle and siding damage. One screened in porch was destroyed. Some of the damage was caused by airborne missiles which fell onto roofs and embedded into the ground. This included pieces of a stockade fence. The tornado's path length was estimated at 0.5 miles. Its path width was about 40 yards. Damage was estimated at \$100,000. No serious injuries were reported. An unseasonably warm air mass and a strong cold front conspired to produce the tornado. Preceding the tornado, high temperatures soared to record breaking levels at both the Philadelphia (70 degrees, previous record 61 degrees set in 1898) and Atlantic City (62 degrees, previous record 61 degrees set in 1951) International Airports.

Cumberland County

Newport **12 1828EST 0 0 0 Thunderstorm Wind (G53)**

NEW MEXICO, Central and North

NMZ017 **Capitan/Northern Sacramento Mountains**

05	0900MST	0	0	High Wind (G55)
	1200MST			

Sierra Blanca Airport near Ruidoso reported a peak wind of 63 mph during a period of high winds that lasted about 3 hours.

Storm Data and Unusual Weather Phenomena

February 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

NEW MEXICO, Central and North

NMZ004>005-008>011-016>017 Sangre De Cristo Mountains - Northeast Highlands - Westcentral Mountains - Middle Rio Grande Valley - Sandia/Manzano Mountains - Central High Plains/Estancia Valley County - Lincoln County High Plains/Hondo Valley - Capitan/Northern Sacramento Mountains

10 1500MST 0 0 20K High Wind (G55)
1730MST

Gusty winds developed across central New Mexico as an upper trough swept eastward over the state. Gusts of 50 to 55 mph were reported from Gallup and Grants into Albuquerque. Winds of 60 to 70 mph whipped over the ridges of the central mountain chain stretching from Raton south to Ruidoso then sped downslope at 50 to 60 mph into the adjacent eastern highlands. Several small plains were damaged by gusty winds at the Angel Fire Airport in Colfax County.

NEW MEXICO, South Central and Southwest

NONE REPORTED.

NEW MEXICO, Southeast

NMZ027>029 Guadalupe Mountains Of Eddy County - Eddy County Plains - Lea

01 0000MST 0 0 Drought
28 2359MST

The drought continued across Southeast New Mexico in February with nearly all stations in the area receiving less than one-tenth of an inch of precipitation. The vast majority of these locations reported no measurable precipitation at all. The 0.00 inch of precipitation observed at the Midland International Airport was only the second February on record with no precipitation, with the other occurrence being in 1947.

NEW YORK, Central

NYZ023>024 Schuyler - Chemung

14 0200EST 0 0 Heavy Snow
0800EST

A narrow band of lake enhanced snowfall affected areas downwind of Seneca Lake in central Schuyler and northern Chemung counties. Northerly winds well aligned with the long axis of the lake and the passage of an upper level disturbance helped to kick off the locally heavy snowfall.

Accumulations generally ranged from 4 to 8 inches within this band. The highest totals were found on the south end of Seneca Lake and also across some of the hilltop areas just east and northeast of this area. Burdett in Schuyler county had the greatest tally with 8 inches, while 3 to 5 inch amounts were common just north of Horseheads in Chemung county.

NEW YORK, Coastal

NYZ079>081 Northeast Suffolk - Southwest Suffolk - Southeast Suffolk

25 1020EST 0 0 Heavy Snow
26 0500EST

With a cold high pressure system covering New England, as a strong low pressure system passed east of Long Island, it produced heavy snow.

Light snow began around 11 pm on February 24th near Montauk and became heavier as it slowly spread west across Suffolk County. The heaviest snow fell across the south fork. Snowfall amounts ranged from 6 inches at Patchogue to 13.5 inches at Montauk. A spotter from East Hampton measured 10 inches.

NEW YORK, East

NYZ041>043-048>054-058>061-063>066 Northern Saratoga - Warren - Washington - Western Schenectady - Eastern Schenectady - Southern Saratoga - Western Albany - Eastern Albany - Western Rensselaer - Eastern Rensselaer - Western Greene - Eastern Greene - Western Columbia - Eastern Columbia - Western Ulster - Eastern Ulster - Western Dutchess - Eastern Dutchess

25 2000EST 0 0 Snow
26 0100EST

The outer fringe of precipitation associated with a powerful storm off Cape Cod, brought snow to eastern New York on the evening of February 25. While snowfall amounts generally ranged only from one to three inches, moderate snow fell at the height of the evening commute. This resulted in numerous vehicular accidents and significant traffic delays, especially in the Capital region.

NYZ041-050 Northern Saratoga - Southern Saratoga

28 1700EST 0 0 Wintry Mix
2300EST

NYZ043 Washington

28 1700EST 0 0 Winter Mix
2300EST

Storm Data and Unusual Weather Phenomena

February 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

NEW YORK, East

A wintry mix of rain sleet and snow produced very slick road conditions on the afternoon of February 28 across the Lake George Saratoga region. There were at least 60 weather related accidents between Exit 16 and 24 of the Adirondack Northway. There were many other vehicular accidents on various highways and smaller roadways. One accident on Route 4 in Fort Anne Washington county proved fatal.

NEW YORK, North

NONE REPORTED.

NEW YORK, West

NYZ008

Lewis

13 0740EST 0 0 5K Heavy Snow

A general snowfall of three to six inches fell across the north country. Lake effect and orographic enhancement resulted in higher snowfall amounts over the Tug Hill Plateau. Snowfalls of seven to eleven inches were reported on the plateau.

NORTH CAROLINA, Central

Wayne County

Goldsboro

12 1845EST 0 0 Hail (1.00)

A thunderstorm became severe as it moved over the Goldsboro/Seymour Johnson Air Force Base producing 1 inch hail and a wind gust of 60 mph. Several 8 inch diameter trees were blown down. Winds of 60 mph were also reported in Dudley where trees were also downed.

Wayne County

Goldsboro

28 1500EST 0 0 45K Lightning

Lightning struck a house on Creekside Drive. No injuries were reported in the fire that began in the attic. Twenty-two firefighters took 2 hours to put out the blaze.

Cumberland County

Wade

28 1525EST 0 0 20K Thunderstorm Wind (G50)

Two houses sustained major roof damage and another house had minor damage as strong thunderstorm winds hit the small community off I-95. Three storage buildings were also destroyed.

NORTH CAROLINA, Central Coastal

Onslow County

Verona to
Camp Lejeune

28 2154EST 0 0 Hail (0.75)
2225EST

Dime size hail was reported by a 911 operator in the southwestern portion of Onslow county. Nickel size hail was also reported at Brown's Mobile Home Park.

NORTH CAROLINA, Extreme Southwest

NONE REPORTED.

NORTH CAROLINA, North Coastal

Northampton
County

Conway 28 1505EST 0 0 Hail (0.75)

Hertford County

Murfreesboro 28 1515EST 0 0 Hail (0.75)

NORTH CAROLINA, Northwest and North Central

NCZ001>002-018-
018

Ashe - Alleghany - Watauga

01 0030EST 0 0 Winter Storm
2345EST

Snow and sleet overspread northwestern North Carolina during the early morning hours of the 1st. Snow accumulations of up to 2 inches occurred before changing to sleet and freezing rain. Freezing rain accumulated 1/4 inch to 1/2 inch, downing some trees and tree limbs, before changing to light rain and drizzle during the afternoon and evening.

NCZ001>002-
018>019

Ashe - Alleghany - Watauga - Wilkes

19 1030EST 0 0 Heavy Snow
2200EST

Mixed rain and snow developed over northwestern North Carolina early in the morning of the 19th and changed to all snow by late

Storm Data and Unusual Weather Phenomena

February 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

NORTH CAROLINA, Northwest and North Central

in the morning. Snow accumulated 4 to 7 inches, in Alleghany, Ashe, and Watauga counties, before tapering off and ending toward evening. In Wilkes County, accumulations of 4 to 7 inches occurred at elevations above 2000 feet with 1 to 3 inches elsewhere. Several automobile accidents occurred during the afternoon due to snow covered roads.

NORTH CAROLINA, South Coastal

Columbus County

Bolton	19	1505EST			0	0			Hail (0.75)
		1510EST							

New Hanover County

Wilmington	19	1615EST			0	0			Hail (1.00)
		1620EST							

Hail reported on Shipyard Blvd and South College Rd.

Pender County

Burgaw	19	1630EST			0	0			Hail (0.75)
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Pender County

Willard	28	1457EST			0	0			Hail (1.00)
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Robeson County

Rowland	28	1510EST			0	0			Hail (1.00)
		1512EST							

Pender County

Burgaw	28	1515EST			0	0			Hail (0.75)
		1520EST							

Robeson County

Fairmont	28	1535EST			0	0			Hail (0.75)
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NORTH CAROLINA, Southwest

NCZ049

Yancey									
01		0000EST			0	0			Snow And Ice
		0600EST							

Snow and ice covered roads contributed to numerous auto accidents early on the 1st. One accident was fatal (indirect).

NCZ034>037-

054>057-066>070

Caldwell - Alexander - Iredell - Davie - McDowell - Burke - Catawba - Rowan - Polk - Rutherford - Cleveland - Lincoln - Gaston									
01		0000EST			0	0			Freezing Rain
		0600EST							

Moisture flowing north over sub-freezing surface air resulted in a light coating of freezing rain during the early morning hours across the foothills and western piedmont of North Carolina. Accumulations of ice were up to 1/8th inch and mainly on trees.

NCZ037-057

Davie - Rowan

12		1600EST			0	0	5K		Gusty Winds
		1700EST							

Gusty gradient winds along and just ahead of a cold front gusted unofficially to 55 mph and caused at least one tree to fall on a house.

NCZ033-049>051

Avery - Yancey - Mitchell - Swain

13		0700EST			0	0			Heavy Snow
		1400EST							

Low-level moisture in a strong northwest flow was lifted up the slopes of the North Carolina mountains bordering Tennessee. Snow accumulated between 3 and 5 inches, with heaviest amounts falling above 3000 feet. Also, cold temperatures and strong winds combined to produce below zero wind chills.

NCZ034-048-

053>055-058>059

Caldwell - Madison - Buncombe - McDowell - Burke - Graham - Northern Jackson

13		0800EST			0	0			Snow
		1400EST							

Low-level moisture in a strong northwest flow was lifted over the mountains of North Carolina, resulting in light snow as far east as the high elevations of some of the foothills. Accumulations ranged between 1 and 3 inches. Cold temperatures and strong winds combined to produce near zero wind chills for much of the day.

Storm Data and Unusual Weather Phenomena

February 1999

									February 1999
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
Killed	Injured	Property	Crops						
<u>NORTH CAROLINA, Southwest</u>									
NCZ033		Avery							
	19	1200EST 1800EST			0	0			Heavy Snow
A surface low moving across Georgia and South Carolina, and an upper level system moving across North Carolina, combined to produce heavy snow across Avery county. By late afternoon, 3 to 6 inch accumulations were common at low elevations, with 6 to 12 inches at the higher elevations.									
NCZ034>037-049>050-054>057-067>072		Caldwell - Alexander - Iredell - Davie - Yancey - Mitchell - McDowell - Burke - Catawba - Rowan - Rutherford - Cleveland - Lincoln - Gaston - Mecklenburg - Cabarrus							
	19	1200EST 1800EST			0	0			Snow
A surface low moving across central Georgia and South Carolina combined with a strong upper level system to produce light snow across much of western North Carolina during the afternoon. Most accumulations were between 1 and 2 inches. Although there was a band of 3 inch accumulations stretching from the northern mountains, southeast through Morganton and to Shelby. Also, some isolated accumulations of around 8 inches were reported from the very highest peaks in the northern mountains.									
NCZ033-048>052		Avery - Madison - Yancey - Mitchell - Swain - Haywood							
	19 20	2200EST 0300EST			0	0			Snow
A moist northwest flow once again brought light snow and snow showers to the counties bordering Tennessee. Accumulations overnight were around one inch, with up to 3 inches at high elevations.									
NCZ034-049>050-053>055-064		Caldwell - Yancey - Mitchell - Buncombe - McDowell - Burke - Transylvania							
	23	0600EST 1700EST			0	0			Snow
An upper level disturbance brought just enough moisture and lift across western North Carolina to produce light snow across portions of the area. Accumulations were generally between 1 and 2 inches, although Little Switzerland reported 3 to 4 inches. Hundreds of traffic accidents occurred, with some injuries resulting, as conditions rapidly deteriorated and became slick in a span of 20 minutes. Interstate 40 was blocked for a while due to several multi-car pile-ups.									
NCZ034>037-048>053-056>059-063-069		Caldwell - Alexander - Iredell - Davie - Madison - Yancey - Mitchell - Swain - Haywood - Buncombe - Catawba - Rowan - Graham - Northern Jackson - Southern Jackson - Lincoln							
	24	0000EST 0600EST			0	0			Snow
Weakening surface low pressure moving into the Ohio and Tennessee Valleys spread light snow east across western North Carolina early on the 24th. Most counties received between a dusting and one inch. However, there was one band of 2 to 3 inch accumulations that stretched from the central part of the mountains across the foothills and into the piedmont near Statesville. Numerous traffic accidents occurred even where only 1/2 inch of snow accumulated.									
NCZ033-048>050		Avery - Madison - Yancey - Mitchell							
	28	1400EST 2359EST			0	0			Snow
A strong northwest flow into the northern mountains produced 1 to 3 inches of snow accumulation. Some of the highest peaks received 4 to 5 inches. The snow continued until shortly after sunrise on the 1st of March. Frequent gusts to 40 mph occurred at the same time and continued well into the afternoon of the next day. However, no damage was reported.									
<u>NORTH DAKOTA, Central and West</u>									
NDZ025		Foster							
	22	1300CST			0	0			Heavy Snow
Low pressure over South Dakota brought a narrow band of heavy snow over east central North Dakota. The city of Carrington in Foster county received 5 to 7 inches of snow in a 7 hour period.									
NDZ034		Morton							
	26	1830CST			0	0			Flood
The Cannonball River in south central North Dakota at Breien rose to 15 feet which was 5 feet above flood stage. The flooding was caused by an ice jam. Flooding of low land areas occurred.									
<u>NORTH DAKOTA, East</u>									
NDZ008-016-027		Pembina - Walsh - Grand Forks							
	12	0300CST 1100CST			0	0			Blizzard
A strong north wind, behind a low pressure area over the western Great Lakes, produced ground blizzard conditions across the									

Storm Data and Unusual Weather Phenomena

February 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

NORTH DAKOTA, East

northern Red River Valley during the early morning hours. A peak wind speed of 51 mph was reported by the Hallock, Minnesota airport. Snow amounts were light, ranging from a trace to 2 inches. Many travel problems were reported, especially along Interstate 29 from Grand Forks north to the Canadian border.

NDZ024

Eddy

22

**1000CST
2200CST**

0

0

Heavy Snow

An inverted trough set up over eastern North Dakota, helping to create a thin band of heavy snow. New Rockford reported 8 inches of snow.

OHIO, East

NONE REPORTED.

OHIO, North

OHZ017-027

Hancock - Wyandot

12

**0000EST
0100EST**

0

0

10K

High Wind (G50)

In Wyandot County, a couple of trees were downed south of Sycamore and a large restaurant sign was downed in Upper Sandusky. A 58 mile per hour wind gust was recorded at Findlay in Hancock County.

OHZ011>014-023

Cuyahoga - Lake - Geauga - Ashtabula - Trumbull

12

1700EST

0

0

Heavy Snow

13

1600EST

Heavy lake effect snow accumulations averaged six to ten inches inland and just a few inches at the lakeshore. The ground was warm from a couple of weeks of mild weather and some melting occurred, especially on roads and sidewalks, which lessened the impact of the snowfall.

OHIO, Northwest

NONE REPORTED.

OHIO, Southeast

**OHZ066>067-
075>076-083>087**

Perry - Morgan - Athens - Washington - Jackson - Vinton - Meigs - Gallia - Lawrence

11

**1200EST
1700EST**

0

0

Record Warmth

Afternoon temperatures soared well into the 70s across southeast Ohio. Beverly, Gallipolis, and South Point all saw 77 degrees, while Jackson had 76. Marietta, Athens, and McConnelsville all registered 75 degrees. New Lexington observed 73 degrees.

**OHZ066>067-
075>076-083>087**

Perry - Morgan - Athens - Washington - Jackson - Vinton - Meigs - Gallia - Lawrence

12

**1000EST
1400EST**

0

0

Snow

One to 4 inches of snow fell in the wake of a cold frontal passage. This occurred less than 24 hours after temperatures were well up in the 70s.

OHIO, Southwest

Preble County

Eaton

11

**2300EST
2305EST**

0

0

3K

Thunderstorm Wind (G50)

Trees and power poles were knocked down.

Darke County

Pittsburg

11

**2313EST
2315EST**

0

0

10K

Thunderstorm Wind (G50)

A barn was blown down by the thunderstorm winds.

Hardin County

Kenton

11

2315EST

0

0

10K

Thunderstorm Wind (G50)

Storms knocked a roof off a house, knocked trees down, and caused damage at the county fair.

Miami County

Countywide

11

**2330EST
2345EST**

0

0

5K

Thunderstorm Wind (G50)

Trees knocked down in several locations across the county.

Storm Data and Unusual Weather Phenomena

February 1999

February 1999									
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
OHIO, Southwest									
Shelby County									
Sidney	11	2330EST 2335EST			0	0	3K		Thunderstorm Wind (G50)
Trees knocked down.									
Greene County									
Wright-Patterson Afb	11	2346EST			0	0			Thunderstorm Wind (G59)
A 68 mph wind gust was recorded.									
Champaign County									
2 W Urbana	12	0005EST 0010EST			0	0	3K		Thunderstorm Wind (G50)
Numerous trees knocked down.									
A strong cold front crossed the Ohio Valley during the early morning hours of the 12th. Ahead of the front, an area of storms developed and moved across the Miami Valley causing damage.									
Darke County									
Countywide	27	2100EST 2300EST			0	0			Flood
The second batch of heavy rainfall in 6 hours caused water to flood across a few roads in the county. Miller and Auld roads were closed due to the high water.									
OKLAHOMA, Eastern									
OKZ060									
Tulsa									
	01	0000CST 0200CST			0	0			Flood
The Bird Creek at Sperry rose above its flood stage of 21 feet at 5 AM on January 31. The river then crested at a stage of 22.2 feet at 7 PM on January 31 before falling back below flood stage at 2 AM on February 1.									
OKZ073									
Pittsburg									
	06	0000CST 2359CST			0	0			Record Warmth
The high temperature of 71 degrees Fahrenheit at the McAlester Regional Airport on this day broke the record high temperature for the date.									
Okfuskee County									
Central Portion	06	1600CST 1800CST			0	0			Flash Flood
Water covered several county roads to a depth of 2-4 feet.									
Muskogee County									
North Portion	06	1630CST 1800CST			0	0			Flash Flood
Several streets around Haskell and Muskogee were closed for a short time by high water.									
Cherokee County									
7 N Tahlequah	06	1700CST			0	0	0.10K		Thunderstorm Wind
Several 6-inch diameter tree sapplings were blown down.									
Adair County									
Christie	06	1725CST			0	0	0.10K		Thunderstorm Wind
Several tree limbs were blown down.									
Adair County									
Baron	06	1730CST			0	0	0.10K		Thunderstorm Wind
Several 3-4" tree limbs were blown out of trees.									
Adair County									
4 N Westville	06	1730CST			0	0	0.20K		Thunderstorm Wind
Several trees were blown down between Westville and Watts.									
Delaware County									
South Portion	06	1730CST 1900CST			0	0			Flash Flood
Several county roads were under 2-3 feet of water in the southern portion of Delaware County.									
Mcintosh County									
Raiford	06	1746CST			0	0			Thunderstorm Wind (G52)

Storm Data and Unusual Weather Phenomena

February 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

OKLAHOMA, Eastern

Pittsburg County

Ashland **06** **1810CST** **0** **0** **0.20K** **Thunderstorm Wind**
Several large trees were blown over.

Pittsburg County

1 N Kiowa **06** **1820CST** **0** **0** **30K** **Thunderstorm Wind**
Three tractor trailers were blown over on US Hwy 69.

Pittsburg County

Quinton **06** **1820CST** **0** **0** **Thunderstorm Wind (G52)**
Several tree limbs were blown down by 60 mph winds.

Haskell County

3 WNW Stigler **06** **1835CST** **0** **0** **Thunderstorm Wind (G52)**
The Oklahoma mesonet site near Stigler measured a 60 mph wind gust. Calls to the area yielded only reports of small tree limbs broken by the wind.

Latimer County

Damon **06** **1910CST** **0** **0** **45K** **Thunderstorm Wind**
Strong thunderstorm winds uprooted numerous trees which then fell onto homes, vehicles, outbuildings, and power lines. Snapped power lines caused a loss of power to areas south of Wilburton. There was substantial damage to two mobile homes and two permanent homes in the Damon Valley area about 5 miles south of Wilburton. At the home with the most damage, shingles were blown off the roof, an air conditioning unit was overturned, and falling trees destroyed two boats and two pickup trucks. Most other damage in the area was to storage buildings, barns, TV antennae, and numerous pine trees blown down.

Latimer County

Yanush **06** **1918CST** **0** **0** **1.5K** **Thunderstorm Wind**
A large tree was blown over and the skirting was blown off of a mobile home near Yanush. The windows were blown out of a home on Sardis Lake.

Latimer County

7 S Bengal **06** **1920CST** **0** **0** **0.20K** **Thunderstorm Wind**
Many large tree limbs were blown down.

Le Flore County

Talihina **06** **1920CST** **0** **0** **Thunderstorm Wind (G61)**

Le Flore County

Fanshawe **06** **1923CST** **0** **0** **0.50K** **Thunderstorm Wind**
A door was blown off of a car port.

Choctaw County

Ft Towson **06** **2020CST** **0** **0** **0.10K** **Thunderstorm Wind**
There were a few 4-6" tree limbs blown down around Fort Towson.

Pawnee County

Ralston **06** **2320CST** **0** **0** **Hail (0.75)**
Thunderstorms first fired up on the afternoon of February 6 along a stationary boundary stretching roughly from Okemah to West Siloam Springs. By late afternoon, one thunderstorm traveled northeast along this boundary, producing torrential rains causing rainfall totals to exceed two inches and causing sporadic flooding along the way. By the time this storm reached Adair County, it produced some marginally severe wind gusts. Further south, a line of thunderstorms moved across southeast Oklahoma during the late afternoon and early evening. Increasing upper level winds associated with an approaching upper level low caused this line of storms to produce locally damaging winds on its track across southeast Oklahoma. By late evening, the center of the upper level low, which was located northwest of Tulsa, caused isolated thunderstorms to form over Pawnee and Osage Counties. One of these storms produced a report of marginally severe hail.

OKZ073

Pittsburg

09 **0000CST** **0** **0** **Record Warmth**
11 **2359CST**

The McAlester Regional Airport recorded record high temperatures on each day from February 9-11.

On February 9, the low temperature for the day of 60 degrees Fahrenheit was the warmest low temperature on record for this date.

On February 10, the high temperature of 77 degrees broke the record high temperature for the date, and the low temperature of 62 degrees was the warmest low temperature on record for this date.

On February 11, the high temperature of 70 degrees tied the record high for the date.

Storm Data and Unusual Weather Phenomena

February 1999

February 1999									
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
OKLAHOMA, Eastern									
Choctaw County									
5 W Hugo to Hugo	11	0903CST 0913CST			0	0	14K		Thunderstorm Wind
A cattle barn west of Hugo was destroyed by thunderstorm winds. In Hugo, over 550 PSO customers lost their power when the wind broke a support wire from an electric poll which then swung up into the power line, causing a power failure.									
Delaware County									
7 NW Colcord	11	0930CST			0	0			Thunderstorm Wind (G52)
Adair County									
5 NNW Stilwell	11	1008CST			0	0	4K		Thunderstorm Wind
A pole barn was destroyed by strong winds. Severe thunderstorms fired up late on the morning of Feb. 11 along a strong cold front preceded by unseasonably warm and humid air as a potent upper level storm system approached. While most of the thunderstorms developed in western Arkansas, two severe thunderstorms with strong winds developed as far west as Delaware and Adair Counties. In southeast Oklahoma, a severe thunderstorm traveled across Choctaw County, producing damaging winds. The same storm later produced a tornado in McCurtain County.									
Osage County									
1 W Burbank	16	0107CST			0	0			Hail (0.75)
Osage County									
Shidler	16	0115CST			0	0			Hail (0.75)
Although there was not much moisture available in the atmosphere, a cold front and a potent upper level disturbance caused showers and isolated thunderstorms to develop and move across far northern Oklahoma early on the morning of February 16. One such thunderstorm moved across western and northern Osage County, producing dime-sized hail.									
OKLAHOMA, Extreme Southeast									
Mccurtain County									
3.2 NE Idabel to 4.1 NE Idabel	11	1030CST 1032CST	0.9	25	0	0	60K		Tornado (F1)
The tornado, witnessed by dozens of people, touched down on new road construction, crossed the road and slammed into the ET Dunlap Center, peeled back the roof and destroyed the interior of the school as well as mangling a satellite dish. Six parked cars were pushed sideways into each other doing little damage. The tornado then moved across the Kiamichi Technology Center damaging the building before moving across Hwy 259 destroying several signs and bending three telephone pools to a 45 degree angle. The tornado then continued into a wooded region. The tornado was described by Randy Barton, an eyewitness, as an upside down bowl which came to a point on the ground. Several eyewitness were within 15 yards of the tornado. The school administrated said there would have been numerous injuries from a collapsing roof except one instructor called in sick cancelling class for the day and other classes were scheduled for just after the event.									
OKLAHOMA, Panhandle									
NONE REPORTED.									
OKLAHOMA, Western, Central and Southeast									
Comanche County									
Geronimo	06	1415CST			0	0			Hail (0.75)
Comanche County									
2 S Geronimo	06	1415CST			0	0			Hail (1.00)
Comanche County									
Pumpkin Center	06	1445CST			0	0			Hail (0.88)
Stephens County									
4 W Marlow	06	1445CST			0	0			Hail (0.88)
Stephens County									
5 SE Marlow	06	1445CST			0	0	6K		Thunderstorm Wind
Lincoln County									
1 E Meeker	06	1450CST			0	0			Hail (0.88)
Lincoln County									
4 E Meeker	06	1454CST			0	0			Hail (0.88)
Garvin County									
5 W Lindsay	06	1515CST			0	0			Thunderstorm Wind (G61)

Storm Data and Unusual Weather Phenomena

February 1999

									February 1999
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
OKLAHOMA, Western, Central and Southeast									
Grady County									
4 SE Bradley	06	1515	CST		0	0			Thunderstorm Wind (G61)
Garvin County									
2 W Maysville	06	1520	CST		0	0	2K		Thunderstorm Wind
Murray County									
1 S Davis	06	1707	CST		0	0	5K		Thunderstorm Wind
Murray County									
Sulphur	06	1707	CST		0	0			Thunderstorm Wind (G52)
Murray County									
2 N Sulphur	06	1715	CST		0	0	300K		Thunderstorm Wind
Murray County									
3 NE Sulphur	06	1720	CST		0	0	4K		Thunderstorm Wind
Pontotoc County									
3 E Roff	06	1725	CST		0	0			Thunderstorm Wind (G52)
Hughes County									
3 E Citra	06	1757	CST		0	0	0.01K		Thunderstorm Wind
Coal County									
8 N Centrahoma	06	1800	CST		0	0			Thunderstorm Wind (G52)
Bryan County									
1 SE Colbert	06	1905	CST		0	0			Thunderstorm Wind (G52)
Bryan County									
Albany	06	1940	CST		0	0			Hail (0.88)
Severe thunderstorms affected portions of southwest and south central Oklahoma during the afternoon and early evening of the 6th. One inch diameter hail was first reported at the intersection of Interstate 44 and Highway 36, 2 miles south of Geronimo in Comanche County. The same severe thunderstorm was then responsible for damaging roofs and outbuildings 5 miles southeast of Marlow in Stephens County. As this storm moved northeast, 70 mph winds were reported on the Garvin/Grady County border, and a roof was blown off a barn 2 miles west of Maysville in Garvin County, and then landed 1/4 of a mile away. In Murray County, a barn was blown down 1 mile south of Davis; and then 2 miles north of Sulphur, power poles were downed, and outbuildings and house roofs were damaged. The walls of a church construction site were also destroyed causing about 300 thousand dollars in damage. Also in Murray County, 3 miles northeast of Sulphur, road signs were blown down, and a small barn was destroyed. The last report of damage came from 3 miles east of Citra in Hughes County, where large tree limbs were downed.									
Lincoln County									
Meeker	06	1445	CST		0	0	0		Urban/Sml Stream Fld
1630									
Numerous slow moving thunderstorms developed over much of south central portions of Lincoln County near Meeker during the afternoon of the 6th. and flooded many roads including Sale Barn Rd. and areas south of U.S. Highway 62. Several locations in and around Meeker reported 2 to 3 inches of rain in 1 1/2 hours.									
Kay County									
Blackwell	06	2220	CST		0	0	0.20K		Lightning
Garfield County									
Enid	06	2248	CST		0	0			Hail (1.00)
Noble County									
7 NE Red Rock	06	2300	CST		0	0			Hail (0.75)
Garfield County									
Douglas	06	2310	CST		0	0			Hail (1.75)
Payne County									
10 SW Stillwater	06	2335	CST		0	0			Thunderstorm Wind (G52)
A few severe thunderstorms developed over portions of north central Oklahoma during the late evening of the 6th. resulting in large hail and one occurrence of damaging winds. Lightning also struck a substation in Blackwell in Kay County, knocking out power to a number of homes for about an hour.									

Storm Data and Unusual Weather Phenomena

February 1999

February 1999									
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage	Crops	Character of Storm
<u>OKLAHOMA, Western, Central and Southeast</u>									
OKZ004>006-009>011-014>017-021>024-027>048-050>052			Harper - Woods - Alfalfa - Ellis - Woodward - Major - Roger Mills - Dewey - Custer - Blaine - Beckham - Washita - Caddo - Canadian - Grady - McClain - Cleveland - Pottawatomie - Seminole - Hughes - Harmon - Greer - Kiowa - Jackson - Tillman - Comanche - Stephens - Garvin - Murray - Pontotoc - Coal - Cotton - Jefferson - Carter - Johnston - Atoka - Love - Marshall - Bryan						
	09	2200CST			0	0			Fog
	10	0900CST							
	Dense fog formed over much of western and central Oklahoma from late evening on the 9th through mid-morning of the 10th. Numerous automobile accidents were reported including a 3 car pile-up in Lawton (Comanche County) on Interstate 44 between Rogers Lane and Cache Rd. This particular accident occurred around 0730 CST on the 10th and backed up traffic for 2 miles in both direction for over an hour. The fog was so dense that many people reported seeing only a few feet.								
OKZ004>048-050>052			Harper - Woods - Alfalfa - Grant - Kay - Ellis - Woodward - Major - Garfield - Noble - Roger Mills - Dewey - Custer - Blaine - Kingfisher - Logan - Payne - Beckham - Washita - Caddo - Canadian - Oklahoma - Lincoln - Grady - McClain - Cleveland - Pottawatomie - Seminole - Hughes - Harmon - Greer - Kiowa - Jackson - Tillman - Comanche - Stephens - Garvin - Murray - Pontotoc - Coal - Cotton - Jefferson - Carter - Johnston - Atoka - Love - Marshall - Bryan						
	11	0700CST 1800CST			0	0	2.1K		High Wind
	Strong northwest winds between 30 and 40 mph with gusts over 50 mph affected all of western and central Oklahoma on the 11th. Reports of damage include a blown out window at Holmes Woodcrafts in Wewoka (Seminole County), a large billboard sign blown down at the Randall overpass on Interstate 40 in Elk City (Beckham County), and a downed tree at the corner of Cedar and Grant Streets in Canton (Blaine County).								
Dewey County									
Leedey	15	2230CST			0	0			Hail (0.88)
Dewey County									
Putnam	15	2305CST			0	0			Hail (0.75)
Noble County									
5 E Billings	16	0015CST			0	0			Hail (0.88)
OKZ033			Harmon						
	22	1645CST			0	0			High Wind (G52)
	Measured by Oklahoma Mesonet								
<u>OREGON, Central and East</u>									
ORZ018>019			Columbia Deschutes Plateau - Northeast Oregon						
	02	0000PST 1130PST			0	0			Heavy Snow
	Three to four inches of snow fell in the Imbler and Cove areas from early morning to noon. Five to six inches of snow fell from midnight to around noon in the Meacham and Bates areas.								
ORZ013>014-016>017-019			North Central Oregon - Central Oregon - Lower Columbia Basin - Foothills Of The Blue Mountains - Northeast Oregon						
	02	1130PST 1830PST			0	0			High Wind (G55)
	A strong wind storm moved across eastern Oregon during the day causing damage in many locations. An outbuilding was blown down in Culver. Numerous trees were blown down in Hermiston and blocked traffic on several roads. Sustained wind of 35 mph with gusts to 50 mph were reported in Helix. Wind gusts to 63 mph were reported in Condon. In Sisters, a metal roof was blown off a shed and landed on power lines causing a power outage and a small fire. Wind gusts to 64 mph were reported at Haystack Lake, eight miles south of Madras, between noon and 230 PM. At Camp Sherman, 10 miles northwest of Sisters, numerous trees were blown down between 10 AM and 3 PM. Trees were also blown down near Maupin and Tumalo. Several large trees were snapped by strong wind in Bend between 130 and 430 PM. One tree fell through a roof over a public pool where some people were swimming. No one was injured. A woman suffered a minor injury on Interstate 84 west of Pendleton when the car she was in ran into the back of a trailer. Visibility was near zero at the time of the highway accident. Peak wind gusts of 53 mph were reported at 613 PM at the Pendleton Airport. The wind blew over a tree and caused a 30 minute power outage in Stanfield and Echo during the afternoon. A metal barn near Elgin was ripped from its supporting beams and moved about 50 feet by strong wind.								
ORZ017			Foothills Of The Blue Mountains						
	04	1231PST			0	0			High Wind (G53)
	A weather spotter reported sustained wind of over 30 mph with gusts to 61 mph in Helix.								
ORZ014-019			Central Oregon - Northeast Oregon						
	05	2000PST			0	0			Heavy Snow
	06	1400PST							

Storm Data and Unusual Weather Phenomena

February 1999

									February 1999
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>OREGON, Central and East</u>									
	Five to six inches of snow fell in Sunriver and at the Pine Mountain Observatory overnight. Five inches fell in Bend.								
ORZ017>019	Foothills Of The Blue Mountains - Columbia Deschutes Plateau - Northeast Oregon								
	06	0815PST 2000PST			0	0	High Wind (G74)		
	A strong wind storm moved through eastern Oregon causing damage in many locations. Sustained wind of 30 to 50 mph with gusts to 85 mph were reported 7 miles west of Mitchell at 820 AM. A roof was blown off a carport at 930 AM about 15 miles east of Pendleton with a wind gust of 78 mph. Interstate 84 was closed due to white out conditions and wind to 50 mph in Ladd Canyon, 10 miles east of La Grande. In Union, the library roof was damaged, a tree fell on a house trailer, and wind gusts over 50 mph were reported. Blowing dust and sand lowered visibility to near zero along Highway 97 near Culver at noon. Sustained wind of 40 mph with gusts to 71 mph were reported near Lostine at 1230 PM. Wind gusts to 81 mph were reported in Condon around 100 PM. Interstate 84 was closed from Pendleton to Hermiston from 1130 PM to 500 PM with blowing dust and sand causing visibilities near zero. At least ten people went to the hospital with injuries sustained from several traffic pile-ups on I-84. Four big trees blew down in the Pendleton cemetery. The Oregon State University experimental station, 8 miles north of Pendleton, reported that 20 trees were snapped off with a peak gust of 95 mph at around 100 PM. The Hermiston Municipal Airport recorded a peak wind gust of 47 mph at around 315 PM. Wind gusts to 50 mph were reported near Winlock at around 300 PM. In Wallowa county, there were reports of wind gusts to 60 mph, light roof damage, road closures due to blowing snow, and scattered tree damage. Power outages were also reported in Mission, Pilot Rock, Athena and in Pendleton.								
ORZ019	Northeast Oregon								
	09	0000PST 0900PST			0	0	Heavy Snow		
	Four inches of new snow fell in the town of Union from midnight to 900 AM.								
ORZ018>019	Columbia Deschutes Plateau - Northeast Oregon								
	13	2000PST			0	0	Heavy Snow		
	14	0800PST							
	Five inches of snow fell overnight in Meacham, 4 inches fell in La Grande, Lostine, and Ukiah; 3 inches inches fell at the John Day airport and in the town of Union.								
ORZ014-018>019	Central Oregon - Columbia Deschutes Plateau - Northeast Oregon								
	16	1600PST			0	0	Heavy Snow		
	17	0930PST							
	Seven inches of new snow fell overnight in Austin/Bates and 4 inches fell in Meacham. Six and a half inches of snow fell in Sunriver overnight.								
ORZ014	Central Oregon								
	17	2200PST			0	0	Heavy Snow		
	18	0900PST							
	Ten inches of snow fell in the town of Sisters. Eight inches of new snow fell overnight in Sunriver. Five inches of snow fell in Bend. The heavy snowfall caused numerous school cancellations and delays. There were also numerous car accidents and spin-outs.								
ORZ017	Foothills Of The Blue Mountains								
	18	0000PST 0600PST			0	0	High Wind (G45)		
	A low pressure produced damaging wind to the Milton-Freewater area. Wind gusts were estimated at 50 mph. There were scattered power outages as a result of tree limbs blowing across power lines. The wind also caused heavy damage to a mobile home								
ORZ018	Columbia Deschutes Plateau								
	18	0500PST 1200PST			0	0	Heavy Snow		
	Two to four inches of new snow fell during the morning in Fossil.								
ORZ019	Northeast Oregon								
	21	2000PST			0	0	Winter Storm		
	22	1530PST							
	Meacham received a foot of new snow from evening to mid day with 9 inches falling in just 7 hours. Blowing and drifting snow was also reported. 12 to 14 inches of snow was reported at Tollgate in 18 hours.								
ORZ018	Columbia Deschutes Plateau								
	22	0600PST 1430PST			0	0	Heavy Snow		
	Six inches of snow fell from daylight to 230 PM in Bates.								
ORZ019	Northeast Oregon								
	27	0200PST 2300PST			0	0	Heavy Snow		

Storm Data and Unusual Weather Phenomena

February 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage	Property	Crops	Character of Storm
Killed	Injured									

OREGON, Central and East

Snow started early morning in Tollgate and by late evening a total of 6 to 8 inches had fallen. At Meacham, Ladd Canyon, and Ukiah, 2 to 3 inches of snow fell during the day.

OREGON, Northwest

ORZ001>002-004>005-011 Northern Coast - Central Coast - Northern Willamette Valley Including Portland Metro Area - Central Willamette Valley Including Salem - Northern Cascades

05 1000PST 0 0 135K High Wind (G104)
06 1800PST

One of the stronger Pacific storms of the winter season resulted in damaging winds when it moved over the coastal area and interiors of NW Oregon and SW Washington. One of the more dramatic events associated with this storm was the destruction of a Keizer, Oregon mobile home. It was crushed by a wind-toppled 200 foot-tall Douglas Fir tree. Many thousands of residents were without power at various times as falling limbs and trees cut power lines. At higher elevations in the Cascade mountains, very strong wind gusts were reported. Mt Bachelor ski area reported a wind gust of 120 MPH. Mt Hood Meadows ski area reported a 103 MPH wind gust. No injuries were reported but resort operations were shut down. During the height of this storm, the National Weather Service's Doppler radar, located just NW of the Portland area, detected winds at 110 MPH at the 7000 foot elevation level.

ORZ011 Northern Cascades

05 1800PST 0 0 Heavy Snow
07 1500PST

A Pacific weather system dumped large amounts of snow over the Washington and Oregon Cascades. Up to 33 inches of snow were reported (Mt. Hood Meadows Ski Area). Oregon Dept. of Transportation measured 30 inches of snow from this storm at Santiam Pass on Hwy 20. The heavy snow briefly closed roads and made travel across the mountains very difficult.

ORZ001-004 Northern Coast - Northern Willamette Valley Including Portland Metro Area

07 0000PST 0 0 0 Flood
11 2100PST

Moderate rains following a prolonged period of saturated conditions and elevated streamflows resulted in minor flooding in Northwest Oregon. Flooding on coastal rivers subsided quickly, but elevated streamflows lingered on some of the slower responding rivers of interior Northwest Oregon. No property damage was reported. A few roads in rural Washington County near Dilley were closed by high water for several days.

Multnomah County

Portland Intl Arpt 08 1708PST 0 0 Lightning
1715PST

An Alaska Airlines aircraft returned to land after being struck by lightning shortly after takeoff. There were no injuries or property damage reported. 122 people were on board the aircraft. A strong Pacific cold front was moving over the area.

ORZ001>002 Northern Coast - Central Coast

16 1000PST 0 0 100K Flood
1700PST

Extremely heavy swells that were built by storms moving over the Eastern Pacific hit the NW Oregon and SW Washington Coasts. The worst of the damage occurred within 2 hours either side of the high tide times which were around noon. Big waves tossed tons of logs and other debris onto US Hwy. 101 near the towns of Neskowin and Rockaway--closing the road. Several reports of logs being tossed onto and through structures were received throughout Oregon. Parts of beaches and dunes eroded several feet. A motel owner in Lincoln City, Oregon remarked that it was the worst coastal flood he had seen in 15 years. At 11:00 AM PST Mo's Restaurant in Cannon, Beach, Oregon was hit by a wave-borne log that broke four plate glass windows. Fortunately, the manager had closed the business that day in order to prevent injuries during the storm.

River traffic on the entire Columbia River system was stalled when ships could not navigate the Mouth of the Columbia River due to extremely dangerous waves breaking at the Columbia River Bar. The Bar was closed between 10:00 AM PST and 8:30 PM PST.

ORZ001>002-004 Northern Coast - Central Coast - Northern Willamette Valley Including Portland Metro Area

20 1700PST 0 0 100K High Wind (G70)
22 1500PST

Back to back wind storms moved over NW Oregon and SW Washington producing widespread high winds and minor to moderate damage. Most damage was due to limbs being blown off trees causing utility outages. A NWS Meteorologist conducted a storm survey to investigate a particularly intense and localized area of damage near the boundary of Gresham and Portland, Oregon just north of NE Halsey Street. Around 8:40 PM PST to 8:55 PM PST winds estimated to be in excess of 70 mph tore off roofing material from several buildings at the Sandstone Manor Apartment Complex at 11611 NE Russell. More damage occurred to homes about 100 yards to the Southwest. Damage ranged from knocked down fences to uprooted trees. Wind driven shingles damaged cars and nearby structures. Eye witnesses reported dark clouds but no rotating cloud structures. There were thunderstorms associated with an intense Pacific front that was passing through the area at that time.

ORZ011 Northern Cascades

22 0600PST 0 0 Heavy Snow
23 1500PST

A cold front dumped heavy snow over the mountains of NW Oregon and SW Washington. The heaviest snow accumulation

Storm Data and Unusual Weather Phenomena

February 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

OREGON, Northwest

reported received was 14 inches in 12 hours at Santiam Pass. Less snow was received farther north, Mt Hood Meadows ski area reported only 6 inches from the storm.

ORZ001>002

Northern Coast - Central Coast

23 1500PST 0 0 High Wind (G75)
24 1300PST

High winds associated with a moderately strong Pacific weather system produced strong winds on the coasts of NW Oregon and SW Washington. The strongest winds were on the North Oregon Coast where a weather spotter reported winds of 86 MPH in Netarts. Other wind reports were 10 to 20 mph lower. Astoria Airport ASOS had a gust of 64 MPH. No injuries or damage was reported.

ORZ001>002

Northern Coast - Central Coast

26 2200PST 0 0 High Wind (G41)
27 2000PST

A minor high wind event occurred when a Pacific Storm moved over the area. Winds barely reached high wind thresholds and no damage or injuries were reported. A weather spotter reported 65 MPH gusts in Netarts.

**ORZ001>002-
004>005**

Northern Coast - Central Coast - Northern Willamette Valley Including Portland Metro Area - Central Willamette Valley Including Salem

27 1300PST 0 0 Flood
28 2359PST

Heavy rains produced flooding along interior rivers of NW Oregon. Flooding was minor and mostly limited to flooding of agricultural lands some roads were closed due to high water in rural Washington County near Dilley.

OREGON, Southeast

ORZ020

Baker

02 0400PST 0 0 Heavy Snow
1200PST

A winter storm brought local heavy snow to Baker County with Halfway reporting 8 inches of new snow.

ORZ020

Baker

06 0300PST 0 0 Heavy Snow
1700PST

A winter storm produced significant snow over much of eastern Oregon. Two to 4 inches generally fell, with local heavy amounts. In Baker County 6 to 7 inches of new snow fell at Halfway.

ORZ021

Lower Treasure Valley

08 1600MST 0 0 5K High Wind (G50)
1700MST

During the evening of February 8th high winds damaged the roof of a school gymnasium near Ontario, Oregon. Local terrain apparently funnelled the wind into locally heavy gusts with no other high wind reports in the area.

ORZ020-022

Baker - Southeast Oregon

09 0200PST 0 0 Heavy Snow
1800PST

A winter storm produced heavy snow over Baker County and local heavy snow over Southeast Oregon. In Baker County 12 inches fell at Sumpter and Unity with 8 inches reported from Baker City. In Southeast Oregon 4 to 5 inches fell in the Burns area, with 6 inches reported from Frenchglen. Eight to 9 inches fell near Juntura.

ORZ020

Baker

16 2000PST 0 0 Heavy Snow
17 0500PST

A winter storm produced 10 inches of new snow at Sumpter.

ORZ020

Baker

18 0500PST 0 0 Heavy Snow
2000PST

Baker County received heavy snow from a winter storm system. Six inches fell at Halfway and Sumpter with generally 3 to 4 inches on the Baker Valley floor.

OREGON, Southwest

ORZ003-003

Southern Coast

03 2300PST 0 0 High Wind (G54)
04 0200PST

Cape Arago winds 35 KT gusting to 54 KT

Another in a long series of windy winter storms hit the Oregon coast on 02/03/99 and lasted into 02/04/99. This time around, the only winds verifying a high wind warning were recorded at Cape Arago.

Storm Data and Unusual Weather Phenomena

February 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

OREGON, Southwest

ORZ003-003-003-003-003-003-003-003-003-003

Southern Coast

05 1300PST 0 0 High Wind (G65)
06 0955PST

Cape Blanco winds 52 KT gusting to 74 KT

One of the strongest storms of the year struck the Oregon Coast on these dates, bringing an extended period of high winds to the coast. The strongest winds are summarized above. The High Wind Warning was issued for this event at 0630 LST on 02/05/99; it was cancelled at 1800 LST on 02/06/99.

ORZ012

Southern Cascades And Siskiyou Mountains

05 1500PST 0 0 Winter Storm
07 0700PST

Official storm totals: 20" at Crater Lake; 22" at Howard Prairie; 15" at Siskiyou Summit.

A strong winter storm moved into Southern Oregon and Northern California on this date. Several reported stations had snowfall amounts which exceeded Winter Storm Warning criteria. A Winter Storm Warning was issued for this system at 1457 LST on 02/05/99 and was cancelled at 0515 LST on 02/07/99.

ORZ003-003

Southern Coast

06 0600PST 0 0 High Wind (G66)

Cape Arago winds S 20KT gusting to 50KT.

A short-lived storm hit the Southern Oregon coast early in the morning. The peak winds, listed above, were recorded before the High Wind Warning was issued. The winds diminished quickly thereafter. The warning was issued for the headlands only at 0736 LST and cancelled at 0840 LST.

ORZ003

Southern Coast

06 2050PST 0 0 Flood
09 0600PST

See below

The Coquille River flooded again due to heavy rainfall in the Southern Oregon coastal areas.

The river reached a stage of 21.23 feet at Coquille (flood stage 21.0 feet) at 0945 LST on 02/08/99.

ORZ008-008-008-008

Rogue Basin

09 0402PST 0 0 Heavy Snow
1150PST

3 spotters in Ashland reported 7-8" snow, other spotters reported 5" at Talent and Prospect.

An unusually cold and wet storm dumped quite a bit of snow in the Rogue Basin...as low as 1200 feet or so. The heavy snow warning was issued for elevations above 1500 feet at 0402 LST and cancelled at 1150 LST.

ORZ015-015-015-015-015-015-015-015-015-015

South Central Oregon

09 0818PST 0 0 Winter Storm
1046PST

Spotter LA19 at Summer Lake reported 12" snow in 24 hours. Wind 20-40 mph with visibility 200 yards in blowing snow.

A cold and wet system dumped plenty of snow with gusty winds as it passed through South Central Oregon. The Winter Storm Warning was issued at 0900 LST and cancelled at 1430 LST.

ORZ003-003-003-003

Southern Coast

15 1458PST 0 0 High Wind (G60)
1858PST

Cape Blanco winds 37KT gusting to 59KT.

Yet another windy storm moved onshore Southern Oregon on this date. The High Wind Warning for the Southern Oregon coast

Storm Data and Unusual Weather Phenomena

February 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

OREGON, Southwest

was issued at 0550 LST and cancelled at 2231 LST. Warning criteria was exceeded at Cape Blanco from 1158 LST to 1858 LST. The maximum sustained wind and gusts at the two verifying stations is listed above.

ORZ003

Southern Coast

16 1505PST 0 0 Flood

Coast Guard reported that a pickup truck and occupants were transported 250 feet up the beach by 30 foot waves in recreation area north of Winchester Bay.

A Coastal Flood Warning was issued at 0850 LST and cancelled at 2019 LST. The above report was the only verification available.

ORZ015-015

South Central Oregon

17 0530PST 0 0 Heavy Snow
0844PST

Spotter KL45 in Crescent reported 8-10 inches of new snow overnight between 1830 and 0430.

A limited heavy snow episode for which no warnings were issued.

ORZ003

Southern Coast

18 0600PST 0 0 High Wind (G36)
0700PST

Cape Arago 36KT sustained wind at 0600 LST...Peak Gust of 58KT at 0700 LST.

The High Wind Warning for this storm was issued at 0456 LST and cancelled at 1155 LST. Only a few observations at Cape Arago at 0600 and 0700 LST met the warning criteria and are listed above.

ORZ003

Southern Coast

18 0700PST 0 0 Flood
20 2240PST

See stage readings below.

Heavy rains caused yet another flood on the Coquille River near Coquille. Stage readings below

Coquille River at Coquille (Flood Stage 21.0 feet).

21.7 feet at 19/0445 LST

21.3 feet at 19/0745 LST

21.48 feet at 20/1145 LST

21.1 feet at 20/1745 LST

ORZ003-003-003

Southern Coast

20 1500PST 0 0 High Wind (G63)
1700PST

Cape Blanco winds 34KT gusting to 63KT.

Yet another winter storm brought high winds to the South Oregon coast. The High Wind Warning was issued at 0649 LST and cancelled at 2025 LST. Warning criteria were met at Cape Blanco from 1400-1700 LST and at Gold Beach 1600-1700 LST.

ORZ003-003-003-003-003

Southern Coast

22 0900PST 0 0 High Wind (G59)
1400PST

Gold Beach winds 38KT gusting to 45KT.

Another winter storm brought high winds to the Southern Oregon Coast. A High Wind Warning was issued at 0846 PST and cancelled at 1614 PST. The highest sustained and peak gusts at all verifying stations is reported above. Cape Blanco had gusts exceeding 50 KT for nine hours.

ORZ003-003-003-003

Southern Coast

23 2200PST 0 0 High Wind (G54)
24 0700PST

Gold Beach winds 44KT gusting to 56KT.

A strong winter storm struck the Southern Oregon coast on 02/23 and 02/24. A High Wind Warning was issued at 1345 LST on the 23rd and cancelled at 1811 LST on the 24th. The highest sustained wind and peak gust at verifying stations are listed above. Cape

Storm Data and Unusual Weather Phenomena

February 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

OREGON, Southwest

Blanco winds met high wind warning criteria for 22 hours.

ORZ003-003-003

Southern Coast

27 0058PST 1658PST 0 0 High Wind (G65)

Cape Blanco winds 46KT gusting to 61KT.

Yet another in a long series of windy winter storms struck the Southern Oregon coast. The highest sustained wind and peak gust for all verifying stations are listed above. The High Wind Warning was issued at 2139 PST on the 26th and cancelled at 2200 PST on the 27th. Gold Beach met high wind warning criteria for 18 hours, Cape Blanco for 24 hours. `

Josephine County

Wilderville

28 0143PST 0 0 Flash Flood

Slade Creek at Wilderville reported out of banks and threatening a nearby road.

Josephine County

Selma

28 0931PST 0 0 Flash Flood

Spotter JO23 5 E Selma reported Deer Creek above bankfull between mileposts 5 and 6.

A Small Stream Flood Warning was issued for Josephine County at 2230 LST on the 27th and cancelled at 1400 LST on the 28th.

ORZ003

Southern Coast

28 0630PST 2359PST 0 0 Flood

See stage readings below.

A Flood Warning was issued for the Coquille River from Myrtle Point to Bandon at 0630 PST on 02/28...and reduced to Coquille to Bandon at 1201 PST on 02/28. The flooding lasted into the next month, and the warning was cancelled at 1300 PST on 03/02.

Stage readings from the Coquille River at Coquille (Flood Stage 21.0 ft)

28/0630	20.06 ft.
28/0945	20.50 ft.
28/1145	20.80 ft.
28/1645	21.30 ft.
01/0245	22.15 ft.
01/0745	22.16 ft.
01/1645	21.90 ft.
02/0545	21.03 ft.
02/1145	20.45 ft.

ORZ003

Southern Coast

28 0830PST 2359PST 0 0 Flood

See stage readings below

A Flood Warning was issued for the Lower Rogue River from Agness to Gold Beach at 0830 PST on 02/28. The warning was cancelled at 0835 PST on 03/01.

Stage reading on Rogue River at Agness (Flood Stage 17.0 feet):

28/0800	17.26 ft.
28/1445	19.06 ft.
28/2045	19.00 ft.
01/0400	17.60 ft.
01/0700	16.72 ft.

PACIFIC

Guam

Tamuning

05 2330AST 06 0145AST 1 0 Rip Currents
M34IW

Guam

Asan

07 0920AST 1100AST 0 2 Rip Currents

Storm Data and Unusual Weather Phenomena

February 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
PACIFIC									
Guam									
Ritidian Point	07	1325AST 1400AST			0	0			Rip Currents
Guam									
Countywide	12 13	0730AST 0600AST			0	0			Urban/Sml Stream Fld
Guam									
Countywide	14 15	2000AST 0900AST			0	0			Urban/Sml Stream Fld
Guam									
Central Portion	14	2130AST			0	0			Lightning
Saipan									
Saipan Intl Airport	15	1216AST 1228AST			0	0			Waterspout

Hazardous surf and strong currents caused by strong northwest swells were present across the Marianas Islands. Daniel Cepeda Mafnas, 34, disappeared while spear fishing in Tumon Bay near the Hilton Hotel side of Ypao beach. Four men, including Mafnas, went into the water around 2330 on the 5th. About an hour and a half later three of the men came out of the water. They could not find Mafnas and called 911 at around 0100 on the 6th. His body was later found near the Fujita Hotel around 0145.

On the 7th the Hazardous surf and strong currents caused by strong northwest swells continued across the Marianas Islands. This caused trouble in two locations. Rescue units received a call around 0920 that two divers were in distress in the waters just north of the War in the Pacific National Historic Park in Asan. When rescuers arrived at the scene one of the divers had made it to shore. The other man was still caught in the channel. Rescuers pulled him from the water. The two men suffered minor injuries. At 1325 two men were swept over the reef at Ritidian Point. Rescuers pulled them out of the water. Both of the men were not injured. The two men said that they were both swimming inside the reef when the currents swept them over the reef.

The rough seas and currents also caused trouble in the Marianas One Man Canoe Series. Paddlers were suppose to go from Tumon to Hagatna, but big waves on the reef in Tumon wiped out one canoe and forced several paddlers to turn back. Race officials decided to call off the race until the seas calmed.

Showers caused by a tropical disturbance southeast of Guam brought heavy rains to the island with 3.37 inches of rain falling on the 12th. This caused Urban and Small Stream flooding across the island.

The tropical disturbance eventually developed into Tropical Depression 02W on the 14th when it was near Yap. Showers associated with convergence into the tropical depression brought more heavy rain across Guam with 3.60 inches of rain falling on the 14th. A lightning strike from a thunderstorm hit two main power lines in the Nimitz Hill Area. Since this line was a large transmission line it's loss caused an island wide power outage. Power was out from 2130 on the 14th until the morning of the 15th.

An additional 3.49 inches of rain on the 15 th caused more localized flooding. 10 people had to be evacuated from their homes at Lemoncito Street in Dededo. No injuries were reported and damage was unknown.

On the 15th a waterspout was seen by the observer at the Saipan International Airport. He reported it southwest of the station from 1216 to 1228.

Tropical Depression 02W becomes Tropical Storm Iris at 1000 on the 17th. Later in the day the tropical storm moved west of 130E and out of the Guam Area of Responsibility.

PENNSYLVANIA, Central

PAZ041>042-046-053

Northern Lycoming - Sullivan - Southern Lycoming - Columbia

07 2300EST 0 0 Heavy Snow

Low pressure tracked northeast across Pennsylvania bringing a mixture of precipitation to the state. Only across the northern mountains was the atmosphere cold enough for the precipitation to remain as snow. Laporte in Sullivan County reported 7 inches of new snow, while areas from Williamsport and Muncy east across northern Columbia and southern Sullivan counties picked up 6 inches. Areas further north had less moisture and totaled about 3 to 4 inches of snow. Generally, to the south of I-80, precipitation was a mix of sleet and snow, limiting accumulations to about an inch or less.

Franklin County

5 W Mercersburg 12 1245EST 0 0 5K Thunderstorm Wind

Trees were blown down on wires along Tuscarora Ridge.

Storm Data and Unusual Weather Phenomena

February 1999

February 1999									
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
Killed	Injured	Property	Crops						
<u>PENNSYLVANIA, Central</u>									
Cumberland County									
West Fairview	12	1309EST			0	0	5K		Thunderstorm Wind
Trees and wires down.									
York County									
Spring Grove	12	1437EST			0	0			Thunderstorm Wind (G58)
Winds gusted to 67 mph.									
York County									
Dover	12	1440EST			0	0	10K		Thunderstorm Wind
York County									
Emigsville	12	1450EST			0	0	5K		Thunderstorm Wind
York County									
York	12	1500EST			0	0	10K		Thunderstorm Wind
Winds damaged the roof of a couple of homes in Dover and York, and took down trees in Emigsville.									
Lancaster County									
Brownstown	12	1530EST			0	0	5K		Thunderstorm Wind
Trees were blown down in Brownstown.									
<u>PENNSYLVANIA, East</u>									
PAZ054>055-060>062-067>071		Carbon - Monroe - Berks - Lehigh - Northampton - Chester - Montgomery - Bucks - Delaware - Philadelphia							
01	0000EST				0	0	0	0	Drought
28	2359EST								
The combination of an extremely wet January and melting snow and ice in the headwater region permitted the Delaware River Basin Commission to lift its drought warning on February 2nd. More precipitation though was needed to overcome the long-term shortages especially with respect to ground water supplies. Thus the Pennsylvania State Department of Environmental Protection's drought warning remained in effect through February. On a county weighted average, February 1999 monthly precipitation across Eastern Pennsylvania was a few tenths of an inch below normal (around 90% of normal). The only exception was Carbon County where the county average monthly precipitation total of 1.9 inches was 68 percent (or .9 of an inch below) of normal.									
PAZ054>055-062		Carbon - Monroe - Northampton							
01	2000EST				0	0		0	Freezing Rain
02	0600EST								
A low pressure system developed along the Gulf Coast the morning of February 1st. A broad southwest flow preceding the low brought warmer air aloft and precipitation into the Middle Atlantic States. A high pressure system that retreated from New Jersey into the Canadian Maritimes on the morning of the 2nd kept enough cold air near the ground for precipitation to start as freezing rain in sections of the Lehigh Valley and most of the Poconos the evening of the 1st. The low tracked northeast along the coastal plain and brought in milder air that raised temperatures above the freezing mark in all areas by the morning of the 2nd. Precipitation was light and intermittent during the evening of the first and became steadier after midnight. Temperatures rose above the freezing mark before the heavier rain moved north. About one to two tenths of an inch of ice accrued on exposed surfaces before the change to plain rain. Untreated roadways and walkways were treacherous.									
PAZ054		Carbon							
07	1300EST				0	0		0	Snow
08	0400EST								
PAZ055		Monroe							
07	1300EST				0	0		0	Heavy Snow
08	0400EST								
Heavy snow fell over sections of the Poconos from the Sunday afternoon of the 7th into the early Monday morning of the 8th. Accumulations in Monroe and Carbon Counties ranged from two to six inches. The snow fell at a fairly consistent rate. This combined with the heaviest precipitation occurring on a Sunday night reduced the number of accidents. Flurries lingered into the morning of the 8th, but the steady snow was over well before the morning commute. Farther south across the Lehigh Valley and upper parts of Berks, Montgomery and Bucks Counties, precipitation started as snow during the late afternoon of the 7th, mixed with or changed over to rain during the evening of the 7th and then went back to snow before ending on the 8th. Accumulations were lighter, generally one to two inches. In the Poconos accumulations included 6 inches in Long Pond, 5 inches in White Haven (Luzerne County), 4 inches in Saylorsburg, 3 inches in East Stroudsburg and 2 inches in Lehighton.									
A low pressure system was located in the central Ohio Valley the morning of the 7th. A second low formed along the primary low's warm frontal boundary in North Carolina the evening of the 7th. This low became the main low and quickly moved offshore on the 8th. By 7 a.m. EST on the 8th, the low was already about 275 statute miles east of Fenwick Island, Delaware. The fast track prevented heavier snow from falling across the region.									

Storm Data and Unusual Weather Phenomena

February 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

PENNSYLVANIA, East

PAZ054

Carbon

12 1600EST 0 0 0 High Wind

A strong cold frontal passage produced high winds across southeast sections of Carbon County. A warehouse trailer was blown over and several barns were damaged. No injuries were reported. Preceding the front, the high temperature soared to a record breaking 69 degrees (previous record was 59 degrees set in 1932) at the Lehigh Valley International Airport.

Chester County

4 NE Malvern

12 1700EST 0 0 0 Thunderstorm Wind (G50)

A squall line of strong to locally severe thunderstorms moved through Chester County. Several trees and wires were knocked down from Tenderizer Township west through West Whiteland Township. U.S. Route 202 was closed because of downed wires. About 3,000 homes in Chester County lost power. An unseasonably warm air mass and a strong cold front conspired to produce a line of strong to locally severe thunderstorms across southeast Pennsylvania. Preceding this line, high temperatures soared to record breaking levels at both the Philadelphia (70 degrees, previous record 61 degrees set in 1898) and Lehigh Valley (69 degrees, previous record 59 degrees set in 1932) International Airports.

Bucks County

2 NE Langhorne

12 1800EST 0 2 0 Thunderstorm Wind (G50)

A squall line of strong to locally severe thunderstorms moved through Bucks County. The worst damage occurred in Middletown Township. High winds blew through the ventilation system of the Crestview Nursing and Rehabilitation Center and caused tiles to fall from the ceilings. Two elderly persons were injured. Shingles were also ripped from the roof of the nursing home. Elsewhere in the township, a number of trees were either snapped or uprooted. An unseasonably warm air mass and a strong cold front conspired to produce a line of strong to locally severe thunderstorms across southeast Pennsylvania. Preceding this line, high temperatures soared to record breaking levels at both the Philadelphia (70 degrees, previous record 61 degrees set in 1898) and Lehigh Valley (69 degrees, previous record 59 degrees set in 1932) International Airports.

PENNSYLVANIA, Northeast

NONE REPORTED.

PENNSYLVANIA, Northwest

PAZ002>003

Southern Erie - Crawford

12 1700EST 0 0 Heavy Snow
13 1600EST

Heavy lake effect snow accumulations averaged six to ten inches. The ground was warm from a couple of weeks of mild weather and some melting occurred, especially on roads and sidewalks, which lessened the impact of the snowfall.

PENNSYLVANIA, West

NONE REPORTED.

PUERTO RICO

PRZ005-013-069-127

Aguadilla - Arecibo - Humacao - San Juan

01 0600AST 0 0 40K Coastal Flooding
03 0600AST

An strong low pressure system developed across the central atlantic producing large north swells across the north coasts of Puerto Rico and the U.S, Virgin Islands. An associated cold front moved across the region during the afternoon hours on February 1. Ahead of the front, winds were light from the north and the air mass was considerably dry. Unusual cooler temperatures were felt during the morning of February 1 across the southern slopes and south coast of Puerto Rico. Adjuntas a town located in the southern interior Puerto Rico reported 48 degrees and Ponce in the south coast 56 degrees.

On the morning of February 2, large north swells started to arrive along the north coast of Puerto Rico. Swells were estimated between 15 to 17 feet over exposed areas. Several coastal roads in Arecibo, Loiza, Hatillo, Isabela and Aguada were closed due to water, sand and debris on the road. In Arecibo few cabins in a recreational park were partially damage. In Loiza a few houses also were affected by the seas, and in Aguadilla several fishing boats suffered some damages. .

Humacao

Luquillo

08 0800AST 1 0 Rip Currents
0830AST

A tourist in Luquillo beach drowned as a consequence of strong rip currents. M64IW

Ponce

Ponce

12 1330AST 0 0 Urban/Sml Stream Fld
1530AST

Strong thunderstorms produced very heavy rainfall and pea size hail in Ponce. In addition urban flooding was reported.

Storm Data and Unusual Weather Phenomena

February 1999

February 1999									
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
Killed									
Injured									
Property									
Crops									
Character of Storm									
RHODE ISLAND									
Kent County									
Coventry	02 03	1500EST 0300EST			0	0			Heavy Rain
Providence County									
Cranston	02 03	1500EST 0300EST			0	0			Heavy Rain
RIZ002>007	Southeast Providence - Western Kent - Eastern Kent - Bristol - Washington - Newport								
	02 03	1800EST 0000EST			0	0			Strong Winds
RIZ007	Newport								
	02	2200EST			0	0			High Wind (G56)
A low pressure system moved from the Carolinas to southern New England, bringing strong southeast winds and over two inches of rain. The peak gust reported was 65 mph at Tiverton, in Newport County. Other strong wind gusts included 55 mph at Barrington and 47 mph at Providence. As much as 2.83 inches of rain fell in Coventry. A spotter in Cranston reported 2.56 inches, Providence 2.52 inches, and Warwick (spotter) 2.23 inches. There were no reports of wind damage or flooding.									
RIZ002	Southeast Providence								
	12	2226EST			0	0			Record Warmth
The high temperature of 61 degrees at T.F. Green Airport in West Warwick, reached during the late evening hours, broke the previous record high of 57 degrees which was set in 1984.									
RIZ001>007	Northwest Providence - Southeast Providence - Western Kent - Eastern Kent - Bristol - Washington - Newport								
	25 26	0000EST 0300EST			0	0			Heavy Snow
A strong low pressure system, which passed about 200 miles southeast of Cape Cod, brought heavy snow to Rhode Island. Over a foot of snow was reported west and north of Providence. The storm closed schools across the state, and created hazardous road conditions. This was the heaviest snowfall of the winter to date. The highest snowfall reported was 14.9 inches in North Foster. Other snowfall amounts included 14 inches in Clayville, 13.5 inches in Westerly and Middletown, 13.3 inches in Ashaway, and 12 inches in West Warwick and West Greenwich. Woonsocket reported 8 inches, and the greater Providence area received between 6 and 8 inches of snow.									
SOUTH CAROLINA, Central									
Aiken County									
5 W Aiken	19	1020EST			0	0		0	Hail (1.75)
Sheriff reported golf ball size hail west of Aiken.									
Orangeburg County									
3 WSW Woodford to 2.5 WSW Woodford	19	1307EST 1308EST	0.5	20	0	0	0	0	Tornado (F0)
Sheriff reported tornado touchdown southwest of Woodford. Damage survey revieled an F0 touched down near a church and went into the woods.									
Orangeburg County									
23 NW Orangeburg	19	1313EST			0	0		0	Hail (1.75)
Fire dept. reported golf ball size hail northwest of Orangeburg.									
Calhoun County									
St Matthews	19	1354EST			0	0		0	Hail (0.88)
Sheriff reported nickel size hail in St. Matthews.									
Orangeburg County									
Ellore	19	1435EST			0	0	0	0	Hail (0.75)
City police reported 3/4 inch hail.									
Clarendon County									
Summerton	19	1442EST			0	0		0	Hail (1.00)
City police reported 1 inch hail.									
Clarendon County									
8 S Manning	19	1454EST			0	0		0	Hail (1.75)
Fire dept reported golf ball size hail.									

Storm Data and Unusual Weather Phenomena

February 1999

February 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
<u>SOUTH CAROLINA, North Coastal</u>									
Williamsburg County									
2 W Andrews	19	1335EST 1340EST			0	0			Hail (0.75)
Hail report from along US 521 in Williamsburg Co.									
Georgetown County									
Andrews to Murrells Inlet	19	1340EST 1451EST			0	0			Hail (1.00)
A thunderstorm moved east across the county. Reports of hail from dime to quarter size came from Andrews, Brown's Ferry, Plantersville, Georgetown and Murrells Inlet.									
Horry County									
Garden City to Surfside Beach	19	1450EST 1500EST			0	0			Hail (0.75)
Horry County									
Socastee	19	1520EST 1525EST			0	0			Hail (0.75)
Williamsburg County									
Greeleyville to Salters	19	1525EST 1540EST			0	0			Hail (0.75)
Georgetown County									
5 NW Oatland	19	1635EST 1640EST			0	0			Hail (0.75)
Hail report from Brown's Ferry, where SC 51 crosses Black River.									
Williamsburg County									
5 W Kingstree	28	1350EST			0	0			Hail (0.88)
<u>SOUTH CAROLINA, Northwest</u>									
SCZ004>008-010									
Southern Oconee - Southern Pickens - Southern Greenville - Spartanburg - Cherokee - Anderson									
01		0000EST 0600EST			0	0			Freezing Rain
Moisture flowing north over a dome of sub-freezing surface air allowed rain that fell to freeze on contact during the early morning hours. Freezing rain accumulated up to 1/8th of an inch and mainly on trees.									
SCZ008>009									
Cherokee - York									
19		1200EST 1800EST			0	0			Snow
Low pressure moving across central Georgia and South Carolina produced mainly a cold rain for the Upstate. However, during the afternoon just enough cold air moved into the northern parts of Cherokee and York counties to turn the precipitation over to snow. Accumulations by early evening were between 1 and 2 inches.									
SCZ006>007-010>012-019									
Southern Greenville - Spartanburg - Anderson - Abbeville - Laurens - Greenwood									
24		0000EST 0600EST			0	0			Snow
A weakening surface low moving east across the Ohio and Tennessee Valleys combined with an upper level disturbance to produce some light snow across parts of the Upstate. Most areas received between a dusting and one inch. However, one band of snow that occurred from near the Hartwell Dam to just north of Laurens produced between 2 and 3 inches. Roads became quite slick even where only 1/2 inch of snow fell. Many accidents were reported, with one accident fatal (indirect) in Pickens county.									
Spartanburg County									
Spartanburg	28	1140EST			0	0			Hail (0.75)
York County									
Rock Hill Bryant Arp	28	1225EST			0	0			Hail (0.75)
A line of thunderstorms developed along an advancing cold front around midday. Two storms became severe and produced dime-size hail.									

Storm Data and Unusual Weather Phenomena

February 1999

									February 1999
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
<u>SOUTH CAROLINA, South Coastal</u>									
Berkeley County									
2 E Bonneau	19	1255EST 1300EST			0	0			Hail (0.88)
Berkeley County									
Moncks Corner	19	1317EST 1322EST			0	0			Hail (0.88)
Pea to nickel sized hail covered the ground.									
Berkeley County									
Jamestown	19	1340EST 1345EST			0	0			Hail (0.88)
<u>SOUTH DAKOTA, Central and North</u>									
NONE REPORTED.									
<u>SOUTH DAKOTA, Southeast</u>									
SDZ068>071 Bon Homme - Yankton - Clay - Union									
22		0700CST 2300CST			0	0			Heavy Snow
Snowfall of 6 to 9 inches slowed transportation. The snow also forced schools and some businesses to close early.									
<u>SOUTH DAKOTA, West</u>									
SDZ001>002-012>014-025>026-030>032-043-046>047-049 Harding - Perkins - Butte - Meade Co. Plains - Ziebach - Northern Foot Hills - Central Foot Hills - Custer Plains - Pennington Plains - Haakon - Jackson - Mellette - Todd - Tripp									
03		0600MST 1900MST			0	0			High Wind (G60)
This was a large scale synoptic wind event that stretched across the region. Strong winds were in the 35 to 45 mph range with gusts to over 70 mph from 7 am until sunset in portions of Western and South Central South Dakota.									
SDZ025 Northern Foot Hills									
07		2200MST 2230MST			0	0			High Wind (G54)
A cold front moving through the region channeled strong winds through the northern foothills. Strong winds lifted a 150 by 20 foot metal building off of its slab, up into the air and dropped it back to the ground. The building was home to more then 100 animals, from llamas to pigs to miniature ponies and chickens. Although some of the chickens were killed, the majority of the animals were unharmed. Surrounding observation sites reported winds gusts to 50 mph as the cold front moved through.									
SDZ013>014-026-031 Meade Co. Plains - Ziebach - Central Foot Hills - Pennington Plains									
10		1100MST 1700MST			0	0			High Wind (G55)
A deep low pressure system moved across South Dakota creating a tight pressure gradient over the western counties. A strong cold front associated with this system moved eastward through the region and winds became very strong around noon, and then died down around sunset as the cold front and low pressure system moved into northeastern South Dakota.									
SDZ001>002 Harding - Perkins									
26		0800MST 1400MST			0	0			Heavy Snow
SDZ001>002-013>014-032 Harding - Perkins - Meade Co. Plains - Ziebach - Haakon									
26 27		1500MST 0400MST			0	0	55K		High Wind (G60)
An intense upper level low pressure system over Minnesota, combined with a Pacific cold front moving into the region, created strong winds and some heavy snowfall over portions of northwestern South Dakota. The heaviest amounts were in the two northernmost counties along the North Dakota border where up to a foot of snow fell. The heavy, wet snow added considerable weight to some of the power lines in those two counties, and when the wind picked up, there were 55 power poles blown over.									

Storm Data and Unusual Weather Phenomena

February 1999

									February 1999
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
<u>TENNESSEE, Central</u>									
Humphreys County									
Waverly	07	0314CST			0	0			Thunderstorm Wind (G50)
Sheriff's office reported power lines were blown down in the eastern part of town.									
Dickson County									
Dickson Muni Arpt	07	0333CST			0	0			Thunderstorm Wind (G60)
69 mph wind gust reported on AWOS.									
Montgomery County									
Sango	07	0400CST			0	0			Thunderstorm Wind (G50)
Newspaper account of strong thunderstorm winds that took the shingles off some roofs and blew down some trees in Sango. A trampoline in a yard was lifted up and smashed into a car.									
Robertson County									
4 NE Springfield	07	0434CST			0	0			Thunderstorm Wind (G50)
EMA reported structural damage to a building at intersection of Youngville and Lakeview Roads.									
Sumner County									
Portland	07	0455CST			0	0			Thunderstorm Wind (G50)
EMA reported structural damage to a building.									
Maury County									
Columbia	09	1515CST			0	0			Hail (1.00)
Sheriff's office reported quarter size hail.									
Stewart County									
Dover	11	1945CST			0	0			Thunderstorm Wind (G50)
EMA reported trees down along Long Creek Road.									
Stewart County									
Southeast Portion	11	2000CST			0	0			Thunderstorm Wind (G50)
EMA reported trees down between Dover and Carlisle.									
Montgomery County									
Shiloh	11	2010CST			0	0			Hail (0.75)
Sheriff's department reported dime size hail across southern part of the county.									
Humphreys County									
Waverly	11	2025CST			0	0			Hail (1.00)
Mc Ewen Police Department reported quarter size hail.									
Perry County									
Countywide	11	2030CST			0	0			Thunderstorm Wind (G50)
Sheriff's office reported power lines down across the county.									
Dickson County									
Dickson	11	2053CST			0	0			Hail (0.75)
SKYWARN spotter reported dime size hail.									
Wayne County									
Waynesboro	11	2059CST			0	0			Hail (0.75)
Sheriff's office reported dime size hail.									
Robertson County									
Springfield	11	2115CST			0	0			Hail (0.75)
EMA reported dime size hail.									
Coffee County									
Manchester	16	2352CST			0	0	25K		Lightning
Lightning hit the Coffee County Consolidated Communications Center and knocked out emergency 911 calls for about an hour. The Center also handles dispatch calls for area law enforcement, fire and ambulance services. Emergency calls had to be routed through the jail. This was the second time in 12 years that the Communications Center was hit this bad by lightning.									
<u>TENNESSEE, East</u>									
Blount County									
Maryville	09	1715EST			0	0			Hail (0.75)
Blount County									
Townsend	09	1735EST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

February 1999

February 1999									
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
Tennessee, East									
Cocke County									
Countywide	09	1830EST			0	0			Lightning
Lightning from a thunderstorm moving through the county struck a district substation, causing power outages in Richland Park, North Street and Highway 160. Outages were also reported on the Morristown Highway area. Around 2000-3000 customers were without power. All power was restored by midnight.									
Tennessee, West									
Shelby County									
Millington	07	0115CST			0	0	10K		Thunderstorm Wind
A gas station had its awning partially blown off. A second business had its windows blown out.									
Tipton County									
Munford	07	0115CST 0120CST			0	0	5K		Thunderstorm Wind
Several trees were blown down.									
Dyer County									
Dyersburg	07	0120CST 0125CST			0	0	10K		Thunderstorm Wind
Some aluminium scaffolding was blown down. A fence was also blown down. A number of trees were knocked down as well.									
Lauderdale County									
Ripley	07	0130CST 0135CST			0	0	10K		Thunderstorm Wind
A building had its gutters blown off. Several trees were knocked down.									
Fayette County									
Oakland	07	0140CST 0150CST			0	0	5K		Thunderstorm Wind
Several power lines were knocked down.									
Haywood County									
Brownsville to Dancyville	07	0140CST 0150CST			0	0	70K		Thunderstorm Wind
A mobile home and a sign for an industrial park were destroyed in Brownsville. A storage trailer was flipped over and three other trailers were damaged in Dancyville. Trees and power lines were blown down in both locations.									
Gibson County									
Yorkville	07	0145CST 0205CST			0	0	25K		Thunderstorm Wind
A house lost part of its roof. Some outbuildings were also damaged. A few trees were knocked down.									
Madison County									
Bemis to Jackson	07	0200CST 0225CST			0	0	30K		Thunderstorm Wind
A chicken house and a barn were destroyed near Jackson. One shed was destroyed and another lost its roof. A tractor trailer was knocked down. Several trees and power lines were blown down.									
Weakley County									
Martin	07	0200CST 0205CST			0	0	35K		Thunderstorm Wind
A radio and communications antenna was blown down. Several trees were also knocked down.									
Hardeman County									
Bolivar	07	0215CST 0220CST			0	0	5K		Thunderstorm Wind
Several power lines were blown down.									
Carroll County									
Mc Kenzie to Huntingdon	07	0220CST 0240CST			0	0	20K		Thunderstorm Wind
A batting cage and scoreboard were toppled and a wooden fence was damaged. A large machine shed was ripped from its foundation. Many trees and power lines were knocked down.									
Henderson County									
Sand Ridge	07	0235CST 0240CST			0	0	5K		Thunderstorm Wind
A few power lines were blown down.									

Storm Data and Unusual Weather Phenomena

February 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
<u>TENNESSEE, West</u>									
Carroll County									
Mc Kenzie	11	1900CST 1905CST			0	0	25K		Thunderstorm Wind
A section of the roof to a hospital was destroyed. A shed was blown against a house.									
Chester County									
Henderson	11	1918CST 1925CST			0	0	0.25K		Hail (1.25)
Gibson County									
Milan	27	1440CST 1445CST			0	0	0.01K		Hail (0.75)
Mcnaury County									
Selmer	27	1740CST 1745CST			0	0	5K		Thunderstorm Wind
Several power poles were knocked down.									
<u>TEXAS, Central</u>									
NONE REPORTED.									
<u>TEXAS, Central Southeast</u>									
Harris County									
Aldine	27	1450CST			0	0	3K		Hail (0.75)
Harris County									
2 W Huffman	27	1515CST			0	0	20K		Hail (1.75)
Waller County									
Hempstead	27	1605CST			0	0	4K		Hail (0.88)
Madison County									
Midway	27	1610CST			0	0	15K		Hail (1.75)
Colorado County									
Frelsburg	27	1620CST			0	0	15K		Hail (1.75)
Trinity County									
Apple Spgs	27	1640CST			0	0	3K		Hail (0.75)
Colorado County									
Columbus	27	1653CST			0	0	10K		Hail (1.00)
Polk County									
Onalaska	27	1720CST			0	0	3K		Hail (0.75)
Austin County									
Wallis	27	1728CST			0	0	3K		Hail (0.75)
Fort Bend County									
3 W Orchard	27	1735CST			0	0	10K		Hail (1.00)
Wharton County									
7 NW Egypt	27	1800CST			0	0	3K		Hail (0.75)
San Jacinto County									
Shepherd	27	1845CST			0	0	15K		Hail (1.75)
Polk County									
Lake Livingston Dam	27	1900CST			0	0	15K		Hail (1.75)
Jackson County									
Ganado	27	1908CST			0	0	3K		Hail (0.75)
Liberty County									
Romayor	27	1908CST			0	0	3K		Hail (0.75)
Matagorda County									
Bay City	27	1918CST			0	0	10K		Hail (1.00)

Storm Data and Unusual Weather Phenomena

February 1999

February 1999									
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
TEXAS, Central Southeast									
Matagorda County									
Bay City	27	1924CST			0	0	10K		Hail (1.00)
TEXAS, Extreme West									
NONE REPORTED.									
TEXAS, Mid - South									
NONE REPORTED.									
TEXAS, North									
Grayson County									
Whitesboro	06	1850CST			0	0	10K		Thunderstorm Wind
Thunderstorm winds blew signs down onto three trucks at the Whitesboro Autoplex.									
Denton County									
Denton Hartlee Arpt	06	1909CST			0	0			Thunderstorm Wind (G50)
A 50 knot wind gust was recorded at the Denton Airport. The gust was from thunderstorms in the area.									
Grayson County									
1 SW Denison	06	1915CST			0	0			Hail (0.75)
Grayson County									
Denison	06	1925CST			0	0			Hail (0.88)
Denton County									
3 SE Denton	06	1938CST			0	0			Hail (0.75)
Tarrant County									
South Lake	06	1941CST			0	0			Hail (0.75)
Denton County									
5 W Lewisville	06	1952CST			0	0	2K		Thunderstorm Wind
Thunderstorm winds blew down power lines.									
Collin County									
Frisco	06	1954CST			0	0			Hail (1.75)
Collin County									
Celina	06	1955CST			0	0	0.50K		Thunderstorm Wind
Trees were blown down from thunderstorm winds.									
Dallas County									
Coppell	06	2025CST			0	0	2K		Thunderstorm Wind
Power lines were blown down by thunderstorm winds. Trees were blown down and a storage building was destroyed.									
Dallas County									
Sachse	06	2028CST			0	0			Thunderstorm Wind (G56)
Hunt County									
Wolfe City	06	2030CST			0	0	2K		Thunderstorm Wind
Thunderstorms blew the roof off a sheet metal carport.									
Collin County									
Farmersville	06	2050CST			0	0			Hail (0.75)
Rockwall County									
Royse City	06	2055CST			0	0	2K		Thunderstorm Wind
Power lines were blown down from thunderstorm winds.									
Hunt County									
Commerce	06	2102CST			0	0			Hail (0.75)
Hunt County									
Commerce	06	2120CST			0	0			Hail (0.75)
Hunt County									
Commerce	06	2120CST			0	0			Thunderstorm Wind (G52)

Storm Data and Unusual Weather Phenomena

February 1999

February 1999									
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
Killed	Injured	Property	Crops						
<u>TEXAS, North</u>									
Lamar County									
Paris	06	2120CST			0	0	0.50K		Thunderstorm Wind
Thunderstorm winds blew down large tree limbs and a tin roof over a dog run was blown off.									
Hopkins County									
Birthright	06	2135CST			0	0			Hail (0.75)
Delta County									
Pecan Gap	06	2155CST			0	0			Hail (0.88)
Lamar County									
6 NW Paris	11	0900CST			0	0	5K		Thunderstorm Wind
A roof was blown off a mobile home by thunderstorm winds.									
<u>TEXAS, North Panhandle</u>									
NONE REPORTED.									
<u>TEXAS, Northeast</u>									
Bowie County									
5 S De Kalb	06	2240CST			0	0	25K		Thunderstorm Wind (G57)
Barn roof blown in middle of Hwy 44.									
Bowie County									
5 S Texarkana	06	2305CST			0	0	12K		Thunderstorm Wind (G61)
Carport blown away.									
Bowie County									
3 SW Texarkana	11	1155CST			0	0			Thunderstorm Wind (G52)
Trees down at 67 Kins Hwy and FM 2516 near Hwy 59.									
Harrison County									
Jonesville	27	1425CST			0	0			Hail (0.88)
Panola County									
Carthage	27	1449CST			0	0			Hail (0.75)
<u>TEXAS, South</u>									
Cameron County									
9.5 E Port Isabel	11	1915CST			0	0			Waterspout
Two waterspouts sighted from a ship.									
<u>TEXAS, South Central</u>									
Bastrop County									
5 E Bastrop to 10 SE Bastrop	27	1500CST 1510CST			0	0	0	0	Hail (0.88)
Bastrop County									
2 N Smithville to 5 S Smithville	27	1520CST 1540CST			0	0	0	0	Hail (1.75)
Fayette County									
5 W Muldoon to 7 SW Muldoon	27	1550CST 1620CST			0	0	10K	0	Thunderstorm Wind
Severe winds blew down trees and large tree limbs in an area 2 miles wide and nearly 10 miles long in open country.									
Lavaca County									
10 E Hallettsville to 15 E Hallettsville	27	1725CST 1740CST			0	0	50K	0	Thunderstorm Wind
Severe winds destroyed a barn, and took the roof off several small buildings.									
Lavaca County									
2 N Hallettsville to 10 S Hallettsville	27	1730CST 1755CST			0	0	0	0	Hail (1.00)
<u>TEXAS, South Panhandle</u>									
NONE REPORTED.									

Storm Data and Unusual Weather Phenomena

February 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

TEXAS, Southeast

TXZ182

Newton

01 0000CST
11 0000CST

0 0 1M Flood

The Sabine River flooded below Toledo Bend dam, causing dozens of people to evacuate. Between Burkeville and Bon Weir, several communities on the river were completely flooded out. At least 50 homes were damaged. This was the highest flood level since the May and July 1989 flood.

Tyler County

Fred

27 1454CST 0 0 Hail (1.75)

Tyler County

Warren

27 1454CST 0 0 Hail (1.75)

Tyler County

Warren

27 1840CST 0 0 Hail (0.75)

TEXAS, West

**TXZ045>048-
050>052-057>063-
067>070-074>075-
079>082**

Gaines - Dawson - Borden - Scurry - Andrews - Martin - Howard - Van Horn/Guadalupe Mountains Area - Reeves County And Upper Trans Pecos - Loving - Winkler - Ector - Midland - Glasscock - Ward - Crane - Upton - Reagan - Davis Mountains - Pecos - Presidio Valley - Marfa Plateau - Big Bend Area - Terrell

01 0000CST
28 2359CST

0 0 Drought

The drought continued across West Texas in February with nearly all stations in the area receiving less than one-tenth of an inch of precipitation. The vast majority of these locations reported no measurable precipitation at all. The 0.00 inch of precipitation observed at the Midland International Airport was only the second February on record with no precipitation, with the other occurrence being in 1947.

TEXAS, Western North

TXZ083>090

Hardeman - Foard - Wilbarger - Wichita - Knox - Baylor - Archer - Clay

09 2200CST
10 0900CST

0 0 Fog

Dense fog formed over much of western north Texas from late evening on the 9th through mid-morning of the 10th. Numerous automobile accidents were reported including 3 involving cars and semi-trucks on US Highway 287 near Iowa Park in Wichita County. At least 1 injury was reported. The fog was so dense that many people reported seeing only a few feet.

TXZ083>090

Hardeman - Foard - Wilbarger - Wichita - Knox - Baylor - Archer - Clay

11 0700CST
1800CST

0 0 0 High Wind

Strong northwest wind between 30 and 40 mph with gusts over 50 mph affected western north Texas on the 11th. Although no damage was reported across western north Texas, a wind gust of 51mph was recorded at Sheppard Air Force Base in Wichita Falls (Wichita County) at 0739 CST.

UTAH, North, Central and South

**UTZ001>003-
005>006-008**

Cache Valley/Utah Portion - Northern Wasatch Front/Brigham City/Ogden Bountiful - Salt Lake And Toole Valleys - Great Salt Lake Desert And Mountains/Wendover/Snowville - Wasatch Mountain Valleys/Huntsville/Park City/Heber - Wasatch Mountains South Of I80

01 0000MST
1200MST

0 0 0 0 Heavy Snow

An overnight storm made for an interesting commute along the Wasatch Front, as it brought good amounts of snow to many valley and bench locations and some welcome powder to the mountains. Alta picked up 20 inches, Snowbird 18 and Solitude 10. In the lower elevations Holladay received 7-10 inches, Cottonwood and Centerville 7, with 6 inches in East Layton.

Storm Data and Unusual Weather Phenomena

February 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

UTAH, North, Central and South

UTZ001>027

Cache Valley/Utah Portion - Northern Wasatch Front/Brigham City/Ogden Bountiful - Salt Lake And Toole Valleys - Southern Wasatch Front/Lehi/Provo/Nephi - Great Salt Lake Desert And Mountains/Wendover/Snowville - Wasatch Mountain Valleys/Huntsville/Park City/Heber - Wasatch Mountains I80 North - Wasatch Mountains South Of I80 - Western Uinta Mountains - Wasatch Plateau/Book Cliffs - Western Uinta Basin - Castle Country/Price/Castle/Dale/Emery - San Rafael Swell/Greene River/Hanksville - Sanpete/Sevier Valleys - West Central Utah/Delta - Southwest Utah/Cedar City/Milford - Central And Southwest Mountains - Southeast Mountains/Canyonlands - Utah'S Dixie And Zion National Park - South Central Utah/Kanab/Escalante - Glen Canyon Recreation Area/Lake Powell - Southeast Utah/Blanding - Eastern Uinta Mountains - Eastern Uinta Basin - Tavaputs Plateau - Grand Flat - Arches/North La Sals

04 0600MST 0 0 Heavy Snow
05 0600MST

Precipitation was widespread across the state as 2 systems merged. The mountains of the state picked up 5-10 inches, with 3-6 inches common over most higher valleys.

UTZ001>002-006>008

Cache Valley/Utah Portion - Northern Wasatch Front/Brigham City/Ogden Bountiful - Wasatch Mountain Valleys/Huntsville/Park City/Heber - Wasatch Mountains I80 North - Wasatch Mountains South Of I80

06 1200MST 0 0 0 0 Heavy Snow
08 1800MST

Another storm brought decent amounts of snow to portions of mainly Northern Utah during a 3-day period. Some of the higher amounts included 23 inches at Beaver Mountain, 20 inches in Park City, 19 inches at Powder Mountain, 15 inches at Snowbasin, 8 inches in Randolph, 6 inches in Wellsville and 4 inches in Logan.

UTZ008

Wasatch Mountains South Of I80

06 1300MST 1 0 0 0 Avalanche
1330MST

A 22-year-old snowshoer was killed by an avalanche while returning home from an outing with 2 friends in Little Willow Canyon below Lone Peak. As the victim was returning home, the avalanche was triggered as his 2 friends continued climbing the slope. He was buried up to 2 feet under in snow and debris. His body was not found until later that evening.

M22OU

UTZ001

Cache Valley/Utah Portion

07 1800MST 0 0 10K 0 High Wind
2300MST

Areas of very strong winds were measured on some mountain tops, with 105 mph (91 kts) on Hidden Peak, 95 mph (83 kts) on Germania and 81 mph (70 kts) on Mt. Baldy. Winds estimated at over 50 mph blew the garage roof off of a home in Petersboro in the Cache Valley.

UTZ001>003-005>010-024

Cache Valley/Utah Portion - Northern Wasatch Front/Brigham City/Ogden Bountiful - Salt Lake And Toole Valleys - Great Salt Lake Desert And Mountains/Wendover/Snowville - Wasatch Mountain Valleys/Huntsville/Park City/Heber - Wasatch Mountains I80 North - Wasatch Mountains South Of I80 - Western Uinta Mountains - Wasatch Plateau/Book Cliffs - Eastern Uinta Basin

09 1100MST 0 0 100K Winter Storm
10 2200MST

A howling storm with an extremely vigorous cold front blasted through Utah, with hurricane force winds gusts, followed by heavy snow. The storm toppled 2 semi-trucks on I-80 between Tooele and Wendover, tipped over a couple boats on trailers at the Great Salt Lake Marina, and produced widespread power outages across the Wasatch Front. Wind gusts between 80-115 mph were quite common over the mountains, with 40-60 mph over the valleys. Strawberry ridge on Snowbasin recorded 115 mph (100 kts), while 109 mph (95 kts) winds were clocked at Empire Peak at Deer Valley. North Salt Lake recorded a gust to 72 mph (63 kts), with 66 mph (57 kts) in South Jordan, 62 mph (54 kts) at the Salt Lake City International Airport, and 59 mph (51 kts) at Milford.

As far as the snow goes, the mountains picked up 10-20 inches, with the benches getting 4-10 and the valleys 3-8 inches. Even portions of Central and Southwest Utah got snow, with Cedar City and Fillmore picking up 10 inches.

UTZ006>008

Wasatch Mountain Valleys/Huntsville/Park City/Heber - Wasatch Mountains I80 North - Wasatch Mountains South Of I80

16 1200MST 0 0 0 0 Heavy Snow
17 1800MST

A storm brought some more snow to the mountains, with Brighton picking up 11 inches, Alta and Solitude 10 inches, Beaver Mountain and Powder Mountain 9 inches and Snowbasin 8 inches. The storm brought light rain to the valleys.

Storm Data and Unusual Weather Phenomena

February 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

UTAH, North, Central and South

UTZ006>009 **Wasatch Mountain Valleys/Huntsville/Park City/Heber - Wasatch Mountains I80 North - Wasatch Mountains South Of I80 - Western Unita Mountains**

18	1200MST	0	0	0	0	Heavy Snow
19	1200MST					

Another snow event for the mountains, with most locations receiving 6-10 inches. Alta and Park City had 9 inches, with 8 inches at Solitude and Deer Valley.

UTZ002-005>009 **Northern Wasatch Front/Brigham City/Ogden Bountiful - Great Salt Lake Desert And Mountains/Wendover/Snowville - Wasatch Mountain Valleys/Huntsville/Park City/Heber - Wasatch Mountains I80 North - Wasatch Mountains South Of I80 - Western Unita Mountains**

21	0900MST	0	0			Winter Storm
22	1800MST					

A decent cold front moved through much of Utah with gusty winds and more snow. Strawberry Ridge at Snowbasin recorded a gust to 85 mph (74 kts), with Tooele reporting a gust to 56 mph (49 kts). The mountains picked up another 6-12 inches of fresh powder, while 2-5 inches fell along the Wasatch Front. Some heavier amounts included 11 inches at Alta, Beaver Mountain and The Canyons, 10 inches at Park City, Brighton and Solitude, 5 inches in Holladay, East Milcreek and Spanish Fork, and 4 inches in Bountiful and North Salt Lake.

UTAH, Northeast

NONE REPORTED.

VERMONT, North and Central

VTZ007 **Caledonia**

12	1500EST	0	0			Record Temperature
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The high temperature in St Johnsbury, Vermont reached 53 degrees at 3 PM EST. This broke the old record of 51 set in 1932.

VTZ005 **Chittenden**

12	1504EST	0	0			Record Temperature
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The high temperature at the NWS Burlington, Vermont Office reached 56 degrees at 304 PM EST. This broke the old record of 52 set in 1932.

VTZ008 **Washington**

12	1510EST	0	0			Record Temperature
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The high temperature at the Knapp State Airport in Vermont (MPV) reached 50 degrees at 310 PM EST. This broke the old record of 46 set in 1984.

VERMONT, South

NONE REPORTED.

VIRGIN ISLANDS

VIZ010-020-030 **St. Croix - St. John - St. Thomas**

01	0600AST	0	0	15K		High Seas
03	0600AST					

A strong low pressure system developed north of the region producing large north swells. An associated cold front moved across the U.S. Virgin Islands on February 1. Unusual cooler temperatures were felt ahead of the front with St. Croix reporting 61 degrees on the morning hours on February 1. Large north swells with breaking waves up to twelve feet began to arrive on February 2. In St. Thomas twelve boats either sank or were crushed on the shore.

St. Thomas County

St. Thomas	15	1300AST	0	0		Waterspout
		1315AST				

Virgin Islands radio reported that a boater sighted three waterspouts north of ST. Thomas moving southeast.

VIRGINIA, East

Goochland County

Hadensville	12	1630EST	0	0		Hail (0.75)
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Powhatan County

Powhatan	12	1650EST	0	0		Hail (1.75)
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Storm Data and Unusual Weather Phenomena

February 1999

February 1999									
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
KilledInjuredPropertyCrops									
<u>VIRGINIA, East</u>									
Goochland County									
Crozier	12	1705EST			0	0	2K		Thunderstorm Wind
Several trees down.									
Hanover County									
Beaver Dam	12	1720EST			0	0	2K		Thunderstorm Wind
Several trees down.									
New Kent County									
Barhamsville	12	1818EST			0	0	2K		Thunderstorm Wind
Several trees down.									
Westmoreland County									
Hague	12	1830EST			0	0			Hail (0.75)
Suffolk (C)									
Suffolk	28	1615EST			0	0			Hail (0.75)
Suffolk (C)									
Suffolk	28	1615EST			0	0	1K		Thunderstorm Wind
Large tree down blocking Route 460.									
Portsmouth (C)									
Portsmouth	28	1632EST			0	0	5K		Thunderstorm Wind
1642EST									
Trees and wires down on 2 houses.									
Chesapeake (C)									
Great Bridge	28	1645EST			0	0			Hail (0.75)
Norfolk (C)									
Norfolk	28	1650EST			0	0			Thunderstorm Wind (G70)
Wind gust of 81 mph reported by Norfolk International Airport Tower.									
<u>VIRGINIA, Extreme Southwest</u>									
NONE REPORTED.									
<u>VIRGINIA, North</u>									
NONE REPORTED.									
<u>VIRGINIA, Northwest</u>									
VAZ003>004	Dickenson - Buchanan								
	11	1200EST			0	0			Record Warmth
1700EST									
Temperatures reached the 70s during the afternoon. Grundy registered 79 degrees, while Clintwood saw 74.									
VAZ003>004	Dickenson - Buchanan								
	12	1100EST			0	0			Snow
1500EST									
Less than 24 hours after temperatures in the 70s, 2 to 3 inches of snow fell behind a cold frontal passage.									
VAZ003>004	Dickenson - Buchanan								
	23	2200EST			0	0			Snow
24 0400EST									
One to 4 inches of snow fell, with the upper limit around the Breaks Interstate Park.									
VAZ003>004	Dickenson - Buchanan								
	25	0700EST			0	0			Snow
1300EST									
One to 4 inches of snow fell.									
<u>VIRGINIA, Southwest</u>									
VAZ010>016-016	Bland - Giles - Wythe - Pulaski - Montgomery - Grayson - Carroll								
	01	0200EST			0	0			Winter Storm
2100EST									

Storm Data and Unusual Weather Phenomena

February 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

VIRGINIA, Southwest

Snow and sleet developed during the early morning hours of the 1st with accumulations of an inch or less before changing to freezing rain. Freezing rain accumulated 1/4 inch to 1/2 inch before changing to rain in the late afternoon and evening. Some tree limbs were downed due to the icing.

VAZ024

Rockbridge

02 1430EST **0 0 10K High Wind**
High winds in Glasgow during the afternoon of the 2nd uprooted 2 large trees, tore shingles off the roof of a new house, and a factory. Damage was reported over an area the width of a football field and 1000 feet long.

Martinsville (C)

Martinsville 12 1420EST 0 0 2K Thunderstorm Wind

Rockbridge County

Glasgow 12 1430EST 0 0 3K Thunderstorm Wind

Henry County

5 S Martinsville City 12 1440EST 0 0 2K Thunderstorm Wind

Pittsylvania County

3.5 NW Chatham 12 1500EST 0 0 2K Thunderstorm Wind

Thunderstorms during the afternoon of the 12th produced damaging winds.

Thunderstorm winds downed trees and power lines in Martinsville, five miles south of Martinsville along route 220, and three and one half miles northwest of Chatham. Trees were downed in Glasgow causing damage to an automobile.

WASHINGTON, Northeast

WAZ031-033-037>038-042 Northeast Blue Mountains - Washington Palouse - Northeast Mountains - Okanogan Highlands - East Slopes Northern Cascades

02 0500PST 0 0 Heavy Snow
28 2300PST

Heavy snow of 6-15" each day was reported across portions of eastern Washington, especially the mountainous areas. Some sites included: Chewelah, Newport, Republic, Mazma and Lake Wenatchee.

WAZ032>037

Lower Garfield & Asotin - Washington Palouse - Moses Lake Area - Upper Columbia Basin - Spokane Area - Northeast Mountains

02 1100PST 0 0 4M High Wind
1700PST

Strong winds of 30-40 mph with gusts of 60-75 mph roared across portions of eastern Washington. This caused widespread damage to downed trees and power lines along with roof and structure damage from Pullman and Spokane to Ephrata and Ritzville.

WAZ042

East Slopes Northern Cascades

10 0800PST 1 1 Winter Storm
2200PST

Heavy snow, gusty winds and bitter cold temperatures lead to hazardous conditions in the back country of the East Cascades where 2 snowmobilers were lost for 11 days. The couple was found, 1 dead and 1 injured. F44OU

Whitman County

Pullman 24 0100PST 0 0 250K Flood

25 0900PST

Rapid snowmelt and heavy rain lead to rising creeks and streams across Whitman County, which lead to high water levels on the North Fork of the Palouse River. Several homes and business had reports of flooding.

Lincoln County

Wilbur to 24 0800PST 0 0 20K Flood

Creston

25 0800PST

Snowmelt and heavy rain caused high water levels on many small stream across northern Lincoln County, including Goose Creek. Portions of Highway 2 were closed and several business were flooded in downtown Creston.

Spokane County

Dartford 25 1500PST 0 0 500K Flood

27 0200PST

Heavy rain in addition to snowmelt produced high water levels on the Little Spokane River, where flooding was pronounced near Dartford at the Pine River Park and several roads were under water. Other small streams were running at bankfull, including Rock Creek at Rockford, Hangman Creek and Money Creek near Deer Park.

Storm Data and Unusual Weather Phenomena

February 1999

									February 1999
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage	Crops	Character of Storm
WASHINGTON, Northwest									
WAZ001-005>006-008>011-016	San Juan - Northwest Interior - Everett And Vicinity - Tacoma Area - Admiralty Inlet Area - Hood Canal/Kitsap Peninsula - Southwest Interior - Central Coast								
	02	1030PST 1330PST			0	0	75K		High Wind (G59)
Along the coast, sustained winds of 40 mph were reported. The peak gust of 68 mph was reported from Friday Harbor. 60,000 customers were without power and the Hood Canal Bridge was temporally closed. High winds ripped several roofs off buildings, pushed boat houses off their moorings and caused trees to fall on two houses.									
WAZ001>002-007-011	San Juan - Western Whatcom - Seattle Metropolitan Area - Southwest Interior								
	05	1300PST 1700PST			0	0	11K		High Wind (G65)
A spotter in Friday Harbor reported wind gusts to 75 mph and one in Issaquah reported a gust to 74 mph. 27,000 customers were without power and there was damage to a Rainier police car from a fallen tree.									
WAZ017	West Slopes Northern Cascades And Passes								
	14	1230PST			2	0			Avalanche
A 19 year old snowboarder died in an avalanche on Mt Baker, while a 25 year old is assumed dead. The body was still buried in deep snow.									
M19OU, M25OU									
WAZ004	Central Casade Foothills								
	20	1030PST 1700PST			0	0			High Wind (G52)
A spotter in Enumclaw reported sustained winds of 40 mph with gusts to 60 mph. During the storm, about 10,000 people lost power and a tree fell onto a mobile home just east of Renton.									
Clallam County									
Sequim	22	0600PST			0	0	100K		Heavy Rain
Heavy rain, over a 24 hour period and over the past 4 months, lead to a mudslide that washed out part of Palo Alto Road. The 24 hour rainfall in the area was about 2 inches. In most other areas of Western Washington, record or near record amounts of rain fell in the 4 month period from November to February.									
Kitsap County									
Silverdale	24	0600PST 1800PST			0	0	35K		Heavy Rain
In Kitsap County, up to 5 inches of rain fell during the 24 hr period ending at 10 am. The heavy rain closed roads, caused mudslides, and subsequent flooding damaged a bowling alley in Silverdale.									
WASHINGTON, Southeast									
WAZ025	East Slopes Southern Cascades								
	01	2000PST			0	0			Heavy Snow
	02	1130PST							
Six inches of new snow fell in Roslyn and five inches fell at Snoqualmie Pass overnight.									
WAZ030	Northwest Blue Mountains								
	02	0500PST 1200PST			0	0			Heavy Snow
Eight inches of snow fell at Ski Bluewood during the morning.									
WAZ026>029	Kittitas Valley - Yakima Valley - Lower Columbia Basin - Blue Mountain Foothills								
	02	1000PST 2350PST			0	0			High Wind (G68)
A wind storm moved through eastern Washington causing damage in many locations. Several remote weather stations in Benton County and the Richland Airport reported wind gusts to 68 mph between 930 AM and 300 PM. A van was blown over in Richland at 1130 AM. Wind gusts were estimated to have reached 50 to 70 mph in the Naches and Toppenish areas which blew over power poles and caused outages. Wind blew some paper over a heat lamp which caused a house fire in Toppenish. Twenty firefighters took more than a hour to put the fire out that was fanned by high wind. The house sustained \$75,000 in damage and a litter of puppies died in the blaze. A remote weather station at Hanford reported wind gusts to 78 mph between 3 and 315 PM. There were numerous reports from Walla Walla of blown down tree limbs and power lines. The wind gusted to 48 mph at the Walla Walla airport between 230 PM and 400 PM. Blowing dust and small branches breaking off trees were reported in Richland around 500 PM. In Yakima, numerous trees were blown down, power outages occurred, minor injuries reported, and the wind gusts were estimated between 60 and 70 mph between 6 and 1000 PM. A three foot diameter tree was blown over onto a house. A peak wind gust of 45 mph was reported at the Yakima airport at around 10 PM. At the Ellensburg airport, the peak wind gust was 48 mph at around 1130 PM.									

Storm Data and Unusual Weather Phenomena

February 1999

									February 1999
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
Killed	Injured	Property	Crops						
<u>WASHINGTON, Southeast</u>									
WAZ028	Lower Columbia Basin								
06	1200PST			0	0			High Wind (G45)	
	1400PST								
High wind blew power lines together causing around 850 customers in the Touchet area to lose power for several hours.									
WAZ025	East Slopes Southern Cascades								
06	2000PST			0	0			Heavy Snow	
	07	0700PST							
Twelve inches of new snow fell overnight at Snoqualmie Pass and 1 to 3 inches of new snow fell between Easton and Cle Elum.									
WAZ030	Northwest Blue Mountains								
16	1800PST			0	0			Heavy Snow	
	17	0500PST							
A weather spotter at Ski Bluewood reported six inches of snow overnight.									
WAZ028>029	Lower Columbia Basin - Blue Mountain Foothills								
18	0000PST			0	0			High Wind (G45)	
	0600PST								
A low pressure produced damaging wind to the Dayton, Touchet, and Walla Walla areas. Wind gusts to 51 mph were reported at the Walla Walla airport. About 500 people were without power as a result of tree limbs blowing across power lines.									
WAZ029	Blue Mountain Foothills								
20	2000PST			0	0			High Wind (G40)	
	21	0400PST							
Strong wind caused numerous power outages in the Walla Walla area. Close to 4,000 customers were without power in the downtown area.									
WAZ025	East Slopes Southern Cascades								
27	0000PST			0	0			Heavy Snow	
	1300PST								
Eight to ten inches of new snow fell at both White Pass and Snoqualmie Pass from around midnight to noon.									
<u>WASHINGTON, Southwest</u>									
WAZ021	South Coast								
01	1700PST			0	0			High Wind (G35)	
	02	1700PST							
A strong Pacific front caused high winds across the region. Sustained wind speeds reached 40 mph at Cape Disappointment.									
WAZ019-021>022-039>040	West Slopes Southern Cascades And Passes - South Coast - Lower Columbia - Vancouver Area - Southern Cascade Foothills								
05	1000PST			0	0	25K		High Wind (G50)	
	06	1800PST							
One of the stronger Pacific storms of the winter season resulted in damaging winds when it moved over the coastal area and interiors of Northwest Oregon and Southwest Washington. One of the more dramatic events associated with this storm was the destruction of a Keizer, Oregon mobile home when a 200 foot douglas fir tree was toppled by winds and crushed the structure. Many thousands of residents were without power at various times as falling limbs and trees cut power lines. At higher elevations in the Cascade Mountains, very strong wind gusts were reported. Mt. Bachelor ski area reported a wind gust of 120 MPH. Mt Hood Meadows ski area reported a 103 mph wind gust. No injuries were reported. A newspaper reported very strong winds downing trees in the South Washington Cascades. Winds at the higher elevations were inferred to be in excess of 100 mph at times. The Portland NWS Doppler Radar measured wind speeds at 110 mph at 7000 feet during the height of the storm.									
WAZ019-040	West Slopes Southern Cascades And Passes - Southern Cascade Foothills								
05	1800PST			0	0			Heavy Snow	
	07	1500PST							
A Pacific weather system dumped large amounts of snow over the Washington and Oregon Cascades. Up to 33 inches of snow were reported (Mt. Hood Meadows Ski Area). Oregon Dept. of Transportation measured 30 inches of snow from this storm at Santiam Pass on Hwy 20. The heavy snow briefly closed roads and made travel across the mountains very difficult.									
WAZ021	South Coast								
16	1000PST			0	0	10K		Flood	
	1700PST								
Extremely heavy swells that were built by storms moving over the Eastern Pacific hit the NW Oregon and SW Washington Coasts. The worst of the damage occurred within 2 hours either side of the high tide times which were around noon.									
River traffic on the entire Columbia River system was stalled when ships could not navigate the Mouth of the Columbia River due to extremely dangerous waves breaking at the Columbia River Bar. The Bar was closed between 10:00 AM PST and 8:30 PM PST.									

Storm Data and Unusual Weather Phenomena

February 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

WASHINGTON, Southwest

WAZ021

South Coast

18 1000PST
19 0300PST

0 0

High Wind (G39)

Another moderate Pacific storm moved over the area and produced a minor wind storm. No damage or injuries were reported. The strongest winds recorded were at Sea Lion Caves where gusts to 58 MPH were clocked. The strongest winds on the Washington Coast were 45 mph at the Cape Disappointment Coast Guard Station.

WAZ021

South Coast

23 1500PST
24 1300PST

0 0

High Wind (G56)

High winds associated with a moderately strong Pacific weather system produced strong winds on the coasts of NW Oregon and SW Washington. Astoria Airport ASOS had a gust of 64 MPH. No injuries or damage was reported.

WEST VIRGINIA, East

NONE REPORTED.

WEST VIRGINIA, North

NONE REPORTED.

WEST VIRGINIA, Southeast

NONE REPORTED.

WEST VIRGINIA, West

WVZ046

Pocahontas

01 0100EST
0800EST

0 0

Winter Storm

A quarter to a half inch of ice was deposited by freezing rain, after 1 to 2 inches of snow fell.

WVZ035-037

Raleigh - Nicholas

01 0100EST
0800EST

0 0

Ice Storm

A quarter to three quarters of an inch of ice was deposited from freezing rain. No widespread power outages were reported.

WVZ005>006

Wayne - Cabell

07 1710EST
1730EST

0 0

Wind

Wind gusts of 40 to 50 mph were seen in the wake of a strong cold frontal passage. The Huntington Airport recorded a gust to 48 mph at 1717 EST.

**WVZ005>011-
013>020-024>040-
046>047**

Wayne - Cabell - Mason - Jackson - Wood - Pleasants - Tyler - Lincoln - Putnam - Kanawha - Roane - Wirt - Calhoun - Ritchie - Doddridge - Mingo - Logan - Boone - Clay - Braxton - Gilmer - Lewis - Harrison - Taylor - McDowell - Wyoming - Raleigh - Fayette - Nicholas - Webster - Upshur - Barbour - Pocahontas - Randolph

11 1200EST
1700EST

0 0

Record Warmth

Afternoon temperatures reached well into the 70s across the lowlands, with 60s in the mountains. A few representative maximum readings include 78 degrees at Weston and Creston, 77 degrees at Clay, and 76 degrees at Huntington, Charleston, and Parkersburg. Clarksburg observed 74 degrees. The 72 degrees at Beckley was a record for the date.

**WVZ005>011-
013>020-024>040-
046>047**

Wayne - Cabell - Mason - Jackson - Wood - Pleasants - Tyler - Lincoln - Putnam - Kanawha - Roane - Wirt - Calhoun - Ritchie - Doddridge - Mingo - Logan - Boone - Clay - Braxton - Gilmer - Lewis - Harrison - Taylor - McDowell - Wyoming - Raleigh - Fayette - Nicholas - Webster - Upshur - Barbour - Pocahontas - Randolph

12 1100EST
1500EST

0 0

Snow

Less than 24 hours after temperatures in the 60s and 70s, 1 to 3 inches of snow fell behind a cold frontal passage.

WVZ033>037

McDowell - Wyoming - Raleigh - Fayette - Nicholas

25 0700EST
1300EST

0 0

Snow

One to 4 inches of snow fell.

WISCONSIN, Extreme Southwest

NONE REPORTED.

Storm Data and Unusual Weather Phenomena

February 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

WISCONSIN, Northeast

WIZ005-010>013-018>021-030>031-035>038-045-048 Vilas - Oneida - Forest - Florence - Marinette - Lincoln - Langlade - Menominee - Oconto - Marathon - Shawano - Wood - Portage - Waupaca - Outagamie - Waushara - Winnebago

11 0500CST 0 0 Fog
1300CST

WIZ030-035>039-045-048>049 Marathon - Wood - Portage - Waupaca - Outagamie - Brown - Waushara - Winnebago - Calumet

11 0900CST 0 0 Record Warmth
1800CST

Southerly winds ahead of an approaching cold front brought unseasonably warm and moist air into Wisconsin. Much of central and northeast Wisconsin still had snow on the ground and the warm, moist air moving over the snow-covered ground resulted in widespread dense fog. Near zero visibility was common across much of central and northeast Wisconsin, resulting in numerous vehicular accidents.

New record high temperatures were set at Green Bay (58 degrees), Oshkosh (59 degrees) and Wisconsin Rapids (52 degrees). Wausau tied their high temperature record (48 degrees).

WISCONSIN, Northwest

WIZ001>004-006>009 Douglas - Bayfield - Ashland - Iron - Burnett - Washburn - Sawyer - Price

01 0600CST 0 0 Ice Storm
1630CST

Freezing rain and freezing drizzle coated much of northwestern Wisconsin with as much as 1/4 inch of ice. Many traffic accidents were reported, and some schools were closed.

WIZ001>004 Douglas - Bayfield - Ashland - Iron

16 0400CST 0 0 Heavy Snow
17 0400CST

Heavy lake effect snow fell along the south shore of Lake Superior. Amounts in the 8 to 10 inch range were common, with 12 inches reported in Saxon and 11 inches in Patzau.

WISCONSIN, Southeast

WIZ051-063-066-069 Fond Du Lac - Dane - Milwaukee - Rock

11 1200CST 0 0 Excessive Heat
1700CST

South winds pulled extremely warm, moist air north into southern Wisconsin ahead of a deep low pressure and strong cold front. The city of Milwaukee in Milwaukee County established a new all-time record maximum temperature of 68 degree, breaking the old record of 65 set back in 1976. A new daily record maximum was also established, with the old record of 60 set back in 1932. The city of Madison in Dane County established a new daily record maximum temperature of 61 degrees, breaking the old one being 54 set back in 1932. This narrowly missed the all-time February maximum of 63 set way back in 1882. Janesville in Rock County recorded a new daily maximum temperature of 66 degrees, breaking the old one of 51 set back in 1977. Up in Fond du Lac, a new all-time record maximum of 62 was recorded, breaking the old one of 58 set back in 1996 and 1932.

Lafayette County

Shullsburg 11 1240CST 0 0 3K Thunderstorm Wind

Iowa County

2 SW Mineral Pt 11 1243CST 0 0 Hail (1.75)

Sauk County

Merrimac 11 1331CST 0 0 Hail (1.00)

Marquette County

Montello 11 1345CST 0 0 Hail (0.75)

Dane County

Madison 11 1350CST 0 0 1K Urban/Sml Stream Fld
1530CST

Dane County

Belleville to 11 1355CST 0 0 10K Thunderstorm Wind (G56)
Cottage Grove 1410CST

Columbia County

Lodi 11 1400CST 0 0 Hail (0.75)

Storm Data and Unusual Weather Phenomena

		Time	Path	Path	Number of		Estimated		February 1999	
Location	Date	Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops	Character of Storm	
<u>WISCONSIN, Southeast</u>										
Green County										
Albany to Brodhead	11	1407CST			0	0	1K		Thunderstorm Wind	
Green Lake County										
1 NE Princeton	11	1407CST			0	0			Hail (0.75)	
Rock County										
Janesville	11	1417CST			0	0			Hail (0.75)	
Jefferson County										
Lake Mills to Watertown	11	1423CST 1430CST			0	0	1K		Thunderstorm Wind (G56)	
Dodge County										
3 N Beaver Dam	11	1430CST			0	0	10K		Thunderstorm Wind	
Milwaukee County										
Milwaukee	11	1430CST 1700CST			0	0	1K		Urban/Sml Stream Fld	
Rock County										
Janesville	11	1430CST			0	0	1K		Lightning	
Dodge County										
Juneau	11	1440CST			0	0			Hail (0.75)	
Walworth County										
5 ESE Whitewater	11	1440CST			0	0	1K		Thunderstorm Wind	
Jefferson County										
1 S Palmyra	11	1445CST			0	0	1K		Thunderstorm Wind	
Walworth County										
Walworth	11	1445CST			0	0	5K		Thunderstorm Wind	
Waukesha County										
Hartland to Elm Grove	11	1445CST 1630CST			0	0	1K		Urban/Sml Stream Fld	
Waukesha County										
Hartland to Brookfield	11	1454CST 1505CST			0	0	3K		Thunderstorm Wind (G55)	
Fond Du Lac County										
Fond Du Lac to Taycheedah	11	1457CST 1505CST			0	0	4K		Thunderstorm Wind (G56)	
Racine County										
Rochester to Racine	11	1510CST 1525CST			0	1	2K		Thunderstorm Wind	
Milwaukee County										
Milwaukee	11	1515CST 1525CST			0	3	25K		Thunderstorm Wind (G61)	

Severe thunderstorms, ahead and along a strong cold front, struck parts of southcentral and southeast Wisconsin during the afternoon hours. The characteristic of the severe storms, extremely rare for February, transformed from large hail to damaging winds as clusters changed into short lines of storms moving rapidly east/northeast at 43 knots (50 mph), or more. All-time record February warmth (temperatures in the 60s) along with surface dewpoints in the 50s fueled the storms which also dumped rainfall amounts of 1/2 to 1 inch in 15 to 30 minutes. Thanks to the intense rainfall rate and still frozen ground, urban flooding was reported in Dane (a mudslide was reported on the UW-Madison campus), Waukesha, and Milwaukee counties. Hundreds of trees were uprooted. Probably 200 to 300 power poles toppled over due to powerful gusts to around 61 knots (70 mph), or were brought down by felled trees. In southcentral Wisconsin, 16,000 customers were without electrical power at one time or another, while about 4,000 customers in southeast Wisconsin lost power.

Near Shullsburg (Lafayette Co.), the winds destroyed a corn crib and scattered its remains across State Hwy 11. Also near Shullsburg, a large tree was pushed over on top of a pickup truck. Large trees were also uprooted in the Albany to Brodhead area of Green County. In Dane County, a wind damage swath extended from near Belleville northeast through southwest Madison to the east side of Madison around the Beltline. Trees and powerlines were pushed over in this area. The roof of a building on a golf driving range was ripped off, and sheet metal was torn off the siding of a couple other businesses in the Paoli area. East of Madison

Storm Data and Unusual Weather Phenomena

February 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

WISCONSIN, Southeast

near Cottage Grove, a semi was blown over, allowing 100 gallons of fuel to spill on I-94.

In Janesville (Rock Co.), lightning struck a school building's chimney, resulting in damage, but luckily no fire. In Jefferson County, wind damage was noted from Lake Mills to Watertown. Besides many toppled trees, several construction sites in Watertown reported damage to scaffolding. Tree damage was also noted just south of Palmyra. In Walworth County, the powerful winds knocked over 2 construction trailers and 3 semi's near the village of Walworth. Large trees were also pushed over by the winds east/southeast of Whitwater.

The southern part of the city of Milwaukee in Milwaukee County was raked by powerful winds. Many trees and power poles were pushed over. A van was blown over, injuring two people. Also in Milwaukee, a woman was injured when the winds knocked her down. It was the nearly the same story in Cudahy which reported damage to several homes, businesses, and vehicles. In Racine County, the winds toppled trees and power lines in a swath from Rochester east to the city of Racine. In the city of Racine, a man was injured when a large tree branch knocked him out of his wheel chair.

Wind damage in Waukesha County occurred in the area from Hartland to Pewaukee. Besides damage to trees and powerline, a shed in Pewaukee was destroyed. The shed's wind-driven debris then damaged a nearby car. Further northwest in Dodge County, the powerful winds near Beaver Dam ripped off a barn's roof. In Fond du Lac county, the winds toppled trees and power poles/lines from Fond du Lac northeast to Taycheedah.

WISCONSIN, Southwest

NONE REPORTED.

WISCONSIN, West

NONE REPORTED.

WYOMING, Central and West

WYZ004-010-014>015-022-024-027 **Cody Foothills - Dubois - Green Mountains - Natrona - Rock Springs/Green River - Flaming Gorge - Southeast Big Horn Mountains**

02	1000MST 2100MST	0	0	High Wind (G81)
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WYZ028 **East Johnson**

09	1200MST 2300MST	0	0	High Wind (G70)
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High winds in the Buffalo area caused some property damage; estimates unavailable. Times estimated.

WYZ015-022>023 **Natrona - Rock Springs/Green River - Red Desert**

10	0100MST 1300MST	0	0	Winter Storm
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Brief, intense storm dropped from 6 inches to a foot of new snow.

WYOMING, Extreme Southwest

NONE REPORTED.

WYOMING, North Central

WYZ098 **Northeast Bighorn Mountains**

21	2100MST	0	0	Heavy Snow
22	0700MST			

A Pacific low pressure system brought heavy snowfall to the Northeast Big Horn Mountains of Wyoming as it tracked east across Southern Montana. 8 inches of snow fell in Burgess Junction with this system.

WYOMING, Northeast

WYZ054>058 **Gillette - South Campbell - Moorcroft - Wyoming Black Hills - Weston**

02	1900MST	0	0	High Wind (G75)
03	1300MST			

A large scale storm system pushed into the region creating strong winds throughout all of Wyoming. The peak gust in Northeastern Wyoming was at Devils Tower which had an 86 mph gust.

Storm Data and Unusual Weather Phenomena

February 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
WYOMING, Southeast									
WYZ059>063-065>070			Converse - Niobrara - Southwest Carbon - North Carbon - Snowy Range - Laramie Valley - Laramie Range - Platte - Goshen - Cheyenne Foothills - Pine Bluffs						
	02	0430MST			0	0	148K	0	High Wind (G81)
	03	1057MST							
	West winds were sustained at 35 to 45 mph across all of southeast Wyoming with gusts as high as 85 mph. Dozens of trailers were blown over on Interstate 25 north of Cheyenne, and on Interstate 80 west of Laramie. A record wind gust for the month of February was reported at the National Weather Service Office in Cheyenne. Many billboards, power lines, trees and awnings were blown down around the city. A gas station canopy was also ripped off by the winds.								
	In Wheatland, trees were blown down and a barn was destroyed by the winds.								
	In Converse County, the winds damaged house siding, roof shingles and vehicle windows. a semi-trailer was overturned on Interstate 25 between Douglas and Glenrock. Winds in this area were sustained at 35 to 50 mph, with gusts to 60 mph.								
WYZ063>064-066>067-069			Snowy Range - North Laramie Range - Laramie Range - Platte - Cheyenne Foothills						
	06	1223MST			0	0	0	0	High Wind (G60)
	07	1907MST							
	Strong west to southwest winds of 35 to 45 mph, with gusts up to 70 mph occurred in the southeast mountains and adjacent plains.								
WYZ061			Southwest Carbon						
	11	0000MST 1200MST			0	0	30K	0	Winter Storm
	A winter storm dumped 8 to 12 inches of snow across southwest Carbon County. In addition, strong winds overturned 10 semitrailers along Interstate 80 in Carbon County.								
WYZ063-067-069			Snowy Range - Platte - Cheyenne Foothills						
	17	1500MST 2100MST			0	0	0	0	High Wind (G51)
	A brief period of strong west to northwest winds of 35 to 45 mph, with gusts up to 60 mph occurred in the southeast mountains and adjacent plains.								
WYZ067>070			Platte - Goshen - Cheyenne Foothills - Pine Bluffs						
	22	0435MST 1800MST			0	0	0	0	High Wind (G54)
	Strong northwest to west winds of 30 to 45 mph, with gusts up to 60 mph occurred across the plains east of the Laramie Range.								
WYZ063-067			Snowy Range - Platte						
	23	0200MST 1200MST			0	0	0	0	High Wind (G61)
WYZ067			Platte						
	26	0920MST 1550MST			0	0	0	0	High Wind (G63)
	Strong west winds of 35 to 50 mph with gusts up to 70 mph occurred across Platte County.								
WYZ064-067			North Laramie Range - Platte						
	28	1000MST 1515MST			0	0			High Wind (G56)

Storm Data and Unusual Weather Phenomena

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
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December 1998

ADDITIONS/CORRECTIONS

MICHIGAN, West

Jackson County

Spring Arbor

06 1510EST **0 0 2K** **Thunderstorm Wind**
A weather spotter reported 2 large trees were downed in Spring Arbor.

Jackson County

Jackson

06 1515EST **0 0 5K** **Thunderstorm Wind**
The Jackson County Sheriff's Department reported 5 trees were downed in the city of Jackson.

**MIZ037>039-
043>045-050>051-
056>059-064>067-
071>074**

**Mason - Lake - Osceola - Oceana - Newaygo - Mecosta - Muskegon - Montcalm - Ottawa - Kent - Ionia -
Clinton - Allegan - Barry - Eaton - Ingham - Van Buren - Kalamazoo - Calhoun - Jackson**

21 1300EST **0 0** **Lake Effect Snow**
22 1800EST

The winter season's first widespread snowfall came in the form of lake effect snow showers which developed behind an arctic cold front which moved across western Lower Michigan during the afternoon and early evening hours of Monday, December 21st. Snow showers continued until the late afternoon hours of December 22nd. Snowfall totals ranged from 1 to 5 inches in the listed counties. The highest snow amounts were reported from the counties adjacent to Lake Michigan, with an average of 3 to 5 inches reported in Lake, Mason, Oceana, Muskegon, Ottawa, Allegan, and Van Buren Counties. As is typically the case in this area, the first snow of the season contributed to a dramatic increase in the reported number of traffic accidents. Most of the accidents were minor, however one fatal accident in Allegan County was blamed on hazardous road conditions. A 35-year old male was killed when he lost control of his sport utility vehicle on northbound I-196 near Saugatuck in Allegan County. The vehicle left the road and smashed into a tree.

The most snow reported from this event was 5.1 inches in Allegan. Other snowfall reports included 5.0 inches in Bloomingdale (Van Buren County), 4.2 inches in Grandville (Kent County), 3.5 inches in Holland, 3.0 inches at the Kent County International Airport in Grand Rapids, 2.5 inches in Hastings (Barry County), and 1.5 inches in Big Rapids (Mecosta County).

MIZ037-043-050

Mason - Oceana - Muskegon

29 1900EST **0 0** **Lake Effect Snow**
30 1900EST

MIZ064-071

Allegan - Van Buren

29 1900EST **0 0** **Heavy Snow**
30 0700EST

A heavy lake effect snow band moved onshore across southwest Allegan County and western Van Buren County around 7:00 pm EST on Tuesday, December 29th. The snow band remained nearly stationary until dissipating around 5:00 am EST on December 30th. However, additional light lake effect snow showers moved across the 2 counties through the day of the 30th. In Allegan County, the heaviest snow fell across Ganges and Casco Townships, affecting the towns of Ganges, Glenn, and Kibbie. Glenn reported 6 inches of snow ending at 5:00 am EST from the snow band. In Van Buren County, the heaviest snow fell along a north-south oriented axis which extended from South Haven to Watervliet (in Berrien County). Along this axis, snowfall averaged 6 to 12 inches. Specific totals included 8 inches in South Haven and 14 inches in Covert.

Strong northerly winds brought arctic air south across the warmer waters of Lake Michigan on the night of Tuesday, December 29th and into the day of December 30th, resulting in lake effect snow showers along the immediate lake shore communities of the above-mentioned counties. One very heavy lake effect snow band (or snow squall) developed over eastern Lake Michigan and moved onshore across southwest Allegan County and western Van Buren County on the evening of the 29th and remained nearly stationary until dissipating between 5:00 and 7:00 am EST on the morning of the 30th. See above details for snowfall totals under this band. Elsewhere, snowfall totals in the listed counties averaged 1 to 3 inches. Specific snowfall reports included 4 inches in Bloomingdale (Van Buren County); 3 inches in Ludington and Scottville (Mason County), 3 miles NE of Pentwater (Oceana County), and Whitehall (Muskegon County); and 2 inches in Bangor (Van Buren County), Pullman (Allegan County), Little Sable Point (Oceana County), and North Muskegon (Muskegon County).

**MIZ056>057-
064>065-071**

Ottawa - Kent - Allegan - Barry - Van Buren

31 0700EST **0 0** **Lake Effect Snow**
2359EST

Lake effect snow showers moved onshore across portions of western Lower Michigan on the morning of Thursday, December 31st, 1998. Snow showers persist through midnight. As of late Thursday evening before midnight, snowfall totals averaged 3 to 5 inches across the listed counties. Several minor traffic accidents were attributed to hazardous road conditions during the late afternoon and evening hours. Specific snowfall reports included 6 inches in Bloomingdale (Van Buren County), 4 inches in Allegan and Grandville (Kent County), 3.5 inches in Holland, 3 inches in Grand Haven and Hastings, and 2.8 inches at the Kent County International Airport in Grand Rapids.

Storm Data and Unusual Weather Phenomena

Location	Date	Time	Path	Path	Number of		Estimated	December 1998	
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Damage Property Crops		

ADDITIONS/CORRECTIONS

NEW MEXICO, Southeast

NMZ027>029

Guadalupe Mountains Of Eddy County - Eddy County Plains - Lea

01	0000MST	0	0	2M	12M	Drought
31	2359MST					

The devastating drought continued into the Winter with little precipitation reported around the region in December. The estimated damage totals are for calendar year 1998.

NMZ029

Lea

11	0530MST	0	0			Heavy Snow
	1200MST					

A strong upper level storm system interacted with copious amounts of Gulf and Pacific moisture to produce a heavy snow event across portions of Southeast New Mexico and West Texas. This storm system moved from west to east across the area with snowfall amounts up to 11 inches in southern Lea County. The closest official recording station at Midland International Airport, Texas set new records for the greatest daily snowfall, the greatest single event snowfall, and the greatest monthly amount with the total of 9.75". Numerous traffic accidents were reported on icy roads with a few injuries. The heavy snowfall also resulted in loss of power for some communities.

TEXAS, West

**TXZ045>048-
050>052-057>063-
067>070-074>075-
079>082**

Gaines - Dawson - Borden - Scurry - Andrews - Martin - Howard - Van Horn/Guadalupe Mountains Area - Reeves County And Upper Trans Pecos - Loving - Winkler - Ector - Midland - Glasscock - Ward - Crane - Upton - Reagan - Davis Mountains - Pecos - Presidio Valley - Marfa Plateau - Big Bend Area - Terrell

01	0000CST	0	0	15M	250M	Drought
31	2359CST					

The devastating drought continued into the Winter with little precipitation reported around the region in December. The estimated damage totals are for calendar year 1998.

**TXZ050>052-
058>063-067>068-
074-079**

Andrews - Martin - Howard - Reeves County And Upper Trans Pecos - Loving - Winkler - Ector - Midland - Glasscock - Ward - Crane - Davis Mountains - Presidio Valley

11	0200CST	0	0			Heavy Snow
	1600CST					

A strong upper level storm system interacted with copious amounts of Gulf and Pacific moisture to produce a heavy snow event across portions of Southeast New Mexico and West Texas. This storm system moved from west to east across the area with snowfall amounts up to 12 inches in western Reeves County. This turned out to be the snow storm of the century for the Midland/Odessa area as the 9.75 inches recorded at the Midland International Airport set new records for the greatest daily snowfall, the greatest single event snowfall, and the greatest monthly snowfall ever recorded. Most of this snow fell in an intense 4-5 hour period. Numerous traffic accidents were reported on icy roads with a large number of injuries and one fatality. The heavy snowfall also resulted in loss of power for some communities.

Storm Data and Unusual Weather Phenomena

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage	January 1999	
					Killed	Injured	Property	Crops	Character of Storm

ADDITIONS/CORRECTIONS

CONNECTICUT, Southern

CTZ005>006

Northern Fairfield - Northern New Haven

03	0957EST		0	0		Ice Storm
	1200EST					

With cold air in place along the surface, as a strong low pressure system moved northeast across the Great Lakes, a second low formed over the Mid-Atlantic States and moved northeast across Long Island during Sunday afternoon, January 3rd.

Light freezing rain was intermittent as it began just after 2 am on Sunday. It became widespread and steady by Sunday morning. At least one-half inch of liquid rain fell with temperatures at or below the freezing mark by the times indicated above. Widespread significant icing occurred across the region. Ice accumulated up to 1 inch on trees and power lines across extreme northern parts of Fairfield County, north of Danbury.

Fairfield County

South Port	03	1119EST		0	0	Urban/Sml Stream Fld
		1300EST				

New Haven County

South Portion	03	1158EST		0	0	Flood
		1500EST				

New Haven County

Woodbridge	03	1158EST		0	0	Flood
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New London County

Norwich	03	1303EST		0	0	Flood
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With cold air in place along the surface, as a strong low pressure system moved northeast across the Great Lakes, a second low formed over the Mid-Atlantic States and moved northeast across Long Island during Sunday afternoon, January 3rd.

A light intermittent mix of sleet and freezing rain began around 3 am on Sunday. As an icy coating developed on road surfaces below freezing, some significant traffic accidents occurred across the region through Sunday morning.

However, as southeast winds increased, gusting to around 45 mph, surface temperatures quickly rose above freezing from the immediate coast north and west during Sunday morning. An intense narrow band of torrential rain developed within a large area of steady rain. Rain fell on a frozen ground surface at rates as high as 3 inches per hour. This resulted in rapid runoff that caused serious widespread flooding of low-lying and poor drainage areas.

In New London County, water accumulated to around 2 feet on streets in Norwich and at the intersection of New London Turnpike and Fitch Hill Road. In Griswold, a road was washed out and stranded residents of the McClough Manor Old Age Home.

Here are selected rainfall amounts across the region:

- o In Fairfield County, from 2.26 inches at Danbury to 2.83 inches in Bridgeport.
- o In New Haven County, from 1.99 inches at New Haven to 4.30 inches at Ansonia. A spotter measured 4.20 inches in 3 hours at Ansonia. The maximum rainfall rate at the Beecher Road School Weather Station in Woodbridge was 2.48 inches per hour.
- o In New London County, from 1.56 inches at Groton to 2.53 inches at Jewett City.

In addition, minor tidal flooding occurred along the coast from Milford east to Waterford during the late morning and afternoon high tides.

Fairfield County

Greenwich to Stratford	15	1000EST		0	0	Flood
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Storm Data and Unusual Weather Phenomena

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
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January 1999

ADDITIONS/CORRECTIONS

CONNECTICUT, Southern

New Haven County

New Haven	15	1000EST			0	0			Flood
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Fairfield County

Danbury	15	1100EST			0	0			Flood
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Middlesex County

Countywide	15	1100EST			0	0			Flood
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New Haven County

Waterbury to Meriden	15	1100EST			0	0			Flood
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New London County

Countywide	15	1100EST			0	0			Flood
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A combination of heavy rain falling on frozen ground, snow and ice melting, and partially clogged storm drains, caused widespread flash flooding of low-lying and poor drainage areas across the region.

In Fairfield County, up to 3 feet of water collected under road overpasses in Bridgeport. Widespread and significant street flooding also occurred in Stamford, Norwalk, and Stratford as well as in Danbury.

In New Haven County, significant widespread street and basement flooding occurred in New Haven, Hamden, Waterbury, and Meriden.

In New London County, up to 4 feet of water collected along the Rte. 2/32 connector and 2 feet of water ponded along parts of Glenn Street and Rte. 165 in Montville. Widespread street flooding was reported in Norwich.

Rainfall amounts ranged from 0.86 inches at Groton to 1.56 inches at Madison.

Icing also occurred across the region from January 14th through the early morning hours of the 15th. It downed scattered tree limbs that resulted in scattered power outages.

Fairfield County

Greenwich to Bridgeport	18	1755EST			0	0			Thunderstorm Wind (G52)
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New Haven County

Naugatuck	18	1815EST			0	0			Lightning
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New Haven County

Waterbury	18	1817EST			0	1			Lightning
-----------	----	---------	--	--	---	---	--	--	-----------

Thunderstorms and heavy showers occurred ahead of an approaching cold front. They caused a brief period of high winds and torrential rain.

High winds toppled several tree limbs onto power lines from Greenwich to Bridgeport. Many power outages were reported.

Lightning struck a house on Osborn Road in Naugatuck. It entered the house through a telephone line and did some damage to a computer inside. Lightning also struck a house at 64 Keefe Street in Waterbury. A 42 year old man in the garage suffered second-degree burns on his hands. The lightning left a burn mark on the back of the house.

Torrential rain caused minor flooding of low-lying and poor drainage areas that included streets and basements.

New Haven County

Wallingford	24	1355EST			0	0			Flood
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Wet antecedent conditions (high stream flows) combined with a 1 to 2 inch heavy rainfall caused flash flooding of the Quinnipiac River at Wallingford.

Storm Data and Unusual Weather Phenomena

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage	Crops	Character of Storm
					Killed	Injured	Property		January 1999

ADDITIONS/CORRECTIONS

LOUISIANA, Northeast

Morehouse Parish

Bastrop 21 1835CST 0 0 Hail (1.00)

Morehouse Parish

Bonita 21 1914CST 0 0 Hail (1.00)

Morehouse Parish

**3 N Bonita to
5 NE Jones** 21 1915CST 7 200 0 0 20K Tornado (F1)
1924CST

This tornado crossed into Ashley County, Arkansas. Roofing was torn off of a house near Jones. Numerous trees and power lines were blown down.

West Carroll Parish

2 S Kilbourne 21 1945CST 2 50 0 0 5K Tornado (F0)
Several trees were blown down.

Catahoula Parish

Countywide 21 2030CST 0 0 10K Thunderstorm Wind
Trees and power lines were blown down across the county.

East Carroll Parish

Lake Providence 21 2030CST 0 0 5K Thunderstorm Wind
Numerous trees and power lines were blown down.

Catahoula Parish

1 NE Aimwell 21 2107CST 1 50 0 0 Tornado (F0)
Tornado was spotted by local law enforcement in an open field.

Franklin Parish

Gilbert 21 2145CST 1 40 0 0 Tornado (F0)

Franklin Parish

**4 ESE Wisner to
4 SE Lorelein** 21 2145CST 8 50 0 0 5K Tornado (F1)
2200CST

A few trees and power lines were blown down. This tornado continued into Tensas Parish.

Catahoula Parish

Harrisonburg 21 2200CST 1 50 0 0 10K Tornado (F1)
One house received minor structural damage and one storage shed was damaged. A thirty foot tall antenna was blown down and approximately ten trees were uprooted.

Tensas Parish

**6 SW New Light to
5 NE Tensas Bluff** 21 2200CST 14 440 0 0 500K Tornado (F3)
2215CST

A combined fifty house trailers and houses were completely destroyed by this tornado. Hundreds of trees were either downed or snapped off. A metal fishing boat was wrapped around a tree. Many cotton hoppers were flipped over several times. Vehicles were thrown 250 to 300 feet, one of which was left suspended in a tree.

Tensas Parish

Newellton 21 2215CST 0 0 5K Thunderstorm Wind
Numerous trees were blown down.

Madison Parish

**3 S Tallulah to
2 NE Ashley** 21 2230CST 10 100 0 0 200K Tornado (F1)
2250CST

Eight 18-wheelers and several cars were blown off of Interstate 20 just east of Tallulah. Five power transmission towers were toppled. Many trees were uprooted or split. A large road sign and a television antenna were bent over by winds. Shingles were removed from a motel roof. Part of metal awning was torn off of a gas station roof. This tornado continued into Warren County Mississippi.

MISSISSIPPI, Central

Warren County

**7 SW Eagle Bend to
1 S Eagle Bend** 21 2252CST 6 50 0 0 5K Tornado (F0)
2315CST

Several trees were blown down. This tornado moved out of Madison Parish, Louisiana.

Storm Data and Unusual Weather Phenomena

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage	Crops	Character of Storm
					Killed	Injured	Property		January 1999

ADDITIONS/CORRECTIONS

NEBRASKA, Central

NEZ007

Boyd

01	1200CST	0	0	Heavy Snow
02	1200CST			

Snowfall of 7.0 inches in 24 hours near Lynch.

NEW JERSEY, Northeast

Union County

Countywide	03	0945EST	0	0	Urban/Sml Stream Fld
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Essex County

Countywide	03	0950EST	0	0	Urban/Sml Stream Fld
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Bergen County

Countywide	03	0955EST	0	0	Flood
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Hudson County

Countywide	03	1000EST	0	0	Urban/Sml Stream Fld
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With cold air in place along the surface, as a strong low pressure system moved northeast across the Great Lakes, a second low formed over the Mid-Atlantic States and moved northeast across Long Island during Sunday afternoon, January 3rd.

A light intermittent mix of sleet and freezing rain began just before midnight on Sunday. As an icy coating developed on road surfaces below freezing, some significant traffic accidents occurred across the region from midnight through 3 am. The most significant multi-vehicle accident occurred on Rte. 80 in South Hackensack (Bergen County) around 2:30 am.

However, as southeast winds increased, gusting from 45 to 50 mph, surface temperatures quickly rose above freezing from the immediate coast west during the night. An intense narrow band of torrential rain developed within a large area of steady rain. Rain fell on a frozen ground surface at rates as high as 3 inches per hour. This resulted in rapid runoff that caused widespread flooding of low-lying and poor drainage areas. In Fort Lee (Bergen County), mudslides were reported along Route 4 that disrupted traffic. Strong gusty winds also downed tree branches in Roselle (Union County).

Here are selected rainfall amounts across the region:

- o In Bergen County, from 1.01 inches at Franklin Lakes to 2.67 inches at Ridgewood. At Teterboro, 2.36 inches was measured. At the Harrington Park School Weather Station, the maximum rainfall rate was measured at 3.48 inches per hour.
- o In Essex County, from 1.69 inches at Essex Fells to 3.18 inches at Verona. At Newark Airport, 2.57 inches was measured.
- o In Union County, 2.12 inches was measured at Elizabeth.
- o In Hudson County, 2.51 inches was measured in Harrison.

NJZ002>006-011

Western Passaic - Bergen - Eastern Passaic - Essex - Hudson - Union

15	0430EST	0	0	Winter Storm
	1230EST			

As a strong high pressure system moved east-southeast just north of Northern New England, a low pressure system developed southwest of the area.

A narrow band of light freezing rain changed to sleet and snow with the passage of an arctic cold front during Wednesday afternoon, January 13th. Northeast winds transported a cold shallow airmass that caused temperatures to fall from the 50s into the 20s within 6 hours of its' passage.

A 12 to 18 hour period of light snow preceded the developing storm as warmer air was forced above the cold arctic airmass. Wind chills ranged from 15 to 25 degrees below 0 as northeast winds of 15 to 25 mph combined with temperatures in the teens along the coast and from 0 to 10 degrees above 0 inland.

As the low developed, warmer air was drawn into the system causing the snow to mix with sleet and freezing rain. A prolonged

Storm Data and Unusual Weather Phenomena

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage	January 1999	
					Killed	Injured	Property	Crops	Character of Storm

ADDITIONS/CORRECTIONS

NEW JERSEY, Northeast

period of freezing rain occurred across Northeast New Jersey. Significant icing caused widespread disruptions to mass transit and traffic. It also accumulated on trees and power lines and caused significant power outages across Passaic, Western Essex and Union Counties and Northwest Bergen County.

In Newark, a heavy rain shower produced wind gusts from 30 to 40 mph around 7:50 am. This downed additional ice-laden tree branches and power lines. Two Emergency Medical Technicians were trapped in their ambulance by downed power lines.

Essex County

Newark	15	0925EST			0	0			Flood
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Hudson County

Secaucus	15	0930EST			0	0			Flood
----------	----	---------	--	--	---	---	--	--	-------

Bergen County

Lodi	15	0950EST			0	0			Flood
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Passaic County

West Paterson	15	0950EST			0	0			Flood
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A combination of rain falling on frozen ground, snow and ice melting, and partially clogged storm drains, caused flash flooding of low-lying and poor drainage areas across the region.

In Newark, parts of Rte. 22 were flooded. Parts of the Meadowlands Parkway in Secaucus were closed due to flooding. In Lodi, a section of Route 46 was flooded. In West Paterson, dozens of intersections (including parts of Rte. 80) were under at least 1 foot of water.

Rainfall amounts of 1.00 inch was measured at both Caldwell and Teterboro.

Bergen County

Teaneck	18	1530EST			0	0			Lightning
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Bergen County

Woodridge	18	1740EST			0	0			Thunderstorm Wind (G50)
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Union County

North Plainfield	18	1740EST			0	0			Thunderstorm Wind (G50)
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Bergen County

Lodi	18	1945EST			0	0			Flood
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Thunderstorms and heavy showers occurred ahead of an approaching cold front.

Lightning struck a house on Alpine Drive in Teaneck that ignited a fire. Significant and substantial damage occurred.

Thunderstorms produced a brief period of high winds and torrential rain. High winds downed tree limbs and power lines in Union and Bergen Counties. Torrential rain caused mainly minor flooding. However, at Lodi and Ho-Ho-Kus, streams overflowed their banks. The Saddle River at Lodi was above flood stage until around 3:00 am on January 19th. It crested around six-tenths of a foot above flood stage at 11:40 pm on January 18th.

NEW YORK, Coastal

NYZ067>068

Orange - Putnam

03	0854EST 1200EST			0	0				Ice Storm
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With cold air in place along the surface, as a strong low pressure system moved northeast across the Great Lakes, a second low formed over the Mid-Atlantic States and moved northeast across Long Island during Sunday afternoon, January 3rd.

Light freezing rain was intermittent as it began just after midnight on Sunday. It became widespread and steady by Sunday morning. At least one-half inch of liquid rain fell with temperatures at or below the freezing mark by the times indicated above.

Storm Data and Unusual Weather Phenomena

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage	Crops	Character of Storm	January 1999
					Killed	Injured				

ADDITIONS/CORRECTIONS

NEW YORK, Coastal

Widespread significant icing occurred across the region.

Rockland County

Countywide	03	1030EST			0	0			Urban/Sml Stream Fld
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Richmond County

Countywide	03	1055EST			0	0			Heavy Rain
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New York County

Countywide	03	1100EST			0	0			Heavy Rain
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Bronx County

Countywide	03	1105EST			0	0			Urban/Sml Stream Fld
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Westchester County

Countywide	03	1110EST			0	0			Urban/Sml Stream Fld
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Nassau County

Countywide	03	1127EST			0	0			Flood
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Suffolk County

West Central Portion	03	1210EST			0	0			Flood
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Suffolk County

Eastside	03	1300EST			0	0			Heavy Rain
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Kings County

Countywide	03	1318EST			0	0			Flood
------------	----	---------	--	--	---	---	--	--	-------

Queens County

Countywide	03	1318EST			0	0	500K		Flood
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With cold air in place along the surface, as a strong low pressure system moved northeast across the Great Lakes, a second low formed over the Mid-Atlantic States and moved northeast across Long Island during Sunday afternoon, January 3rd.

A light intermittent mix of sleet and freezing rain began just after midnight on Sunday. As an icy coating developed on road surfaces below freezing, some significant traffic accidents occurred across the region from midnight through 3 am.

However, as southeast winds increased, gusting from 45 to 50 mph, surface temperatures quickly rose above freezing from the immediate coast west during the night. An intense narrow band of torrential rain developed within a large area of steady rain. Rain fell on a frozen ground surface at rates as high as 3 inches per hour. This resulted in rapid runoff that caused widespread serious flooding of low-lying and poor drainage areas mainly from Kings County east across Central Suffolk County. Life-threatening flash flooding occurred in a 30 block area of Springfield Gardens (Queens) where people required rescue from their flooded basement apartments. Water rose to within 6 inches of the ceilings in several apartments. Many locations along the Belt and Southern State Parkways, the Long Island Expressway, and Northern State Parkway were closed due to serious flooding.

Here are selected rainfall amounts across the region:

- o In Nassau County, from 3.69 inches at Sea Cliff to 5.02 inches at Merrick.
- o In Western and Central Suffolk County, from 2.86 inches at Sayville to 4.51 inches at Farmingdale.
- o In Queens County, from 2.53 inches at LaGuardia Airport to 3.78 inches at Kennedy Airport.
- o In Manhattan, a new daily record of 2.42 inches was measured at Central Park.
- o In Westchester County, from 1.67 inches at Yorktown Heights to 2.84 inches at White Plains.
- o In Eastern Suffolk County, from 1.08 inches at Montauk to 2.38 inches at Westhampton.
- o In Rockland County, 2.23 inches was measured in Suffern. Rainfall rates of 2.44 inches per hour was measured at the Clarkstown North HS Weather Station in New City and 2.28 inches per hour at the Felix Festa MS Weather Station in West Nyack.

Storm Data and Unusual Weather Phenomena

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage	January 1999	
					Killed	Injured	Property	Crops	Character of Storm

ADDITIONS/CORRECTIONS

NEW YORK, Coastal

Strong gusty winds combined with heavy rain caused scattered power outages as tree limbs fell mainly from Nassau County east across Central Suffolk County.

NYZ067

Orange

09 0654EST 0 0 Winter Storm

Snow developed just before noon on Friday, January 8th. It changed to freezing rain during Friday evening. Ice accumulated on roads, trees, and power lines. There were significant disruptions to traffic as vehicles skidded off roads. At Montgomery Airport, 0.25 inches of freezing rain was measured. This precipitation was caused by a low pressure system that developed over Texas and moved northeast, passing just west of the local area during Saturday afternoon.

NYZ067>071

Orange - Putnam - Rockland - Northern Westchester - Southern Westchester

15 0500EST 0 0 Winter Storm
1330EST

As a strong high pressure system moved east-southeast just north of Northern New England, a low pressure system developed southwest of the area.

A narrow band of light freezing rain changed to sleet and snow with the passage of an arctic cold front during Wednesday afternoon, January 13th. Northeast winds transported a cold shallow airmass that caused temperatures to fall from the 50s into the 20s within 6 hours of its' passage.

A 12 to 18 hour period of light snow preceded the developing storm as warmer air was forced above the cold arctic airmass. Wind chills ranged from 15 to 25 degrees below 0 as northeast winds of 15 to 25 mph combined with temperatures in the teens along the coast and from 0 to 10 degrees above 0 inland.

As the low developed, warmer air was drawn into the system causing the snow to mix with sleet and freezing rain. A prolonged period of freezing rain occurred from the NYC Metro Area north. Significant icing caused widespread disruptions to mass transit and traffic. Interstate 84 near Greenville Mountain in Middletown (Orange County) and Rte.22 in Bedford (N. Westchester County) were forced to close due to significant icing. Ice also accumulated on trees and power lines and caused significant power outages in Orange and Putnam Counties.

Icing occurred in pockets across New York City and northern parts of Nassau and Suffolk Counties. Icing downed scattered tree limbs across this region.

Heavy rain showers along with wind gusts from 30 to 40 mph occurred from 9:00 am to 9:30 am along the Long Island Sound shore of Westchester County and Northern Nassau and Suffolk Counties. This downed additional scattered ice-laden tree limbs that caused some power outages.

Suffolk County

Lindenhurst to
Bay Shr

15 0855EST 0 0 Flood

Nassau County

Valley Stream

15 0900EST 0 0 Flood

Richmond County

South Beach

15 0915EST 0 0 Flood

As heavy rain fell on a frozen ground surface with partially clogged storm drains, widespread flash flooding of low-lying and poor drainage areas occurred across the region.

In Suffolk County, up to 3 feet of water collected on low-lying roads from Lindenhurst to Bay Shore.

In Nassau County, a portion of Valley Stream Blvd. north of Village Green was washed away.

In Staten Island, up to 2 feet of water collected in many streets in South Beach.

Storm Data and Unusual Weather Phenomena

Location	Date	Time	Path	Path	Number of		Estimated	Crops	Character of Storm
		Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Damage		

January 1999

ADDITIONS/CORRECTIONS

NEW YORK, Coastal

Rainfall amounts ranged from 1.16 inches at Westhampton to 1.74 inches at Farmingdale.

Richmond County

Oakwood Hgts	18	1515EST		0	0	Lightning
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Richmond County

Staten Is	18	1747EST		0	0	Thunderstorm Wind (G52)
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Queens County

Countywide	18	1800EST		0	1	Thunderstorm Wind (G50)
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Nassau County

Long Beach	18	1816EST		0	0	Thunderstorm Wind (G54)
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Suffolk County

Sayville to Bridgehampton	18	1925EST		0	0	Thunderstorm Wind (G75)
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Thunderstorms and heavy showers occurred ahead of an approaching cold front.

In Oakwood, lightning struck the chimney of a house that ignited a fire. Damage occurred to the chimney, kitchen, and living room.

Thunderstorms produced a brief period of high winds and torrential rain across the region.

In Queens, high winds caused a tree to fall on a car that injured a woman.

In Bridgehampton, the National Weather Service confirmed that a strong microburst occurred near the intersection of Mecox Road and Horsemill Lane. This microburst exploded a greenhouse and scattered the debris about 200 yards to the north. In addition, a large tree, totally leafless, was uprooted right near the Greenhouse and several large trees and limbs were blown over in the immediate vicinity all falling in the same direction. Elsewhere in Suffolk County, many trees were downed from Sayville east through Riverhead.

A brief period of torrential rain caused minor flooding of low-lying and poor drainage areas, especially streets.

Orange County

Goshen to Highland Mills	24	0926EST		0	0	Thunderstorm Wind (G52)
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A line of severe thunderstorms produced high winds that downed trees from Goshen east to Highland Mills. Some trees fell on cars at the intersection of Hollis Street and Park Ave. in Highland Mills.

Reference Notes:

Fatality Location Abbreviations:

BF	Ball Field	MH	Mobile Home
BO	Boating	OT	Other
BU	Business	OU	Outside/Open Areas
CA	Camping	PH	Permanent Home
EQ	Heavy Equipment/Construction	SC	School
GF	Golfing	TE	Telephone
IW	In Water	UT	Under Tree
LS	Long Span Roof	VE	Vehicle

List of Acronyms:

WCM	- Warning Coordination Meteorologist
NWS	- National Weather Service
NOAA	- National Oceanic and Atmospheric Administration

Other Notes:

When listing wind speed values under “Character of Storm”, ex. High Wind (G81), the G indicates a “Gust” which is a peak 5-second averaged wind speed in Knots (kts). 1 kt. = 1.152 mph.

When listing hail size under “Character of Storm”, ex. Hail (2.25), the hail size is given in inches and hundredths of inches.

When listing property and crop damage, the figures indicated are the best guess made by the NWS from the available sources of information at the time of the printing.

The Saffir-Simpson Scale

Category One Hurricane:

Winds 74-95 mph (64-82 kt or 119-153 kph). Storm surge generally 4-5 ft above normal. No real damage to building structures. Damage primarily to unanchored mobile homes, shrubbery, and trees. Some damage to poorly constructed signs. Also, some coastal road flooding and minor pier damage.

Category Two Hurricane:

Winds 96-110 mph (83-95 kt or 154-177 kph). Storm surge generally 6-8 feet above normal. Some roofing material, door, and window damage of buildings. Considerable damage to shrubbery and trees with some trees blown down. Considerable damage to mobile homes, poorly constructed signs, and piers. Coastal and low-lying escape routes flood 2-4 hours before arrival of the hurricane center. Small craft in unprotected anchorages break moorings.

Category Three Hurricane:

Winds 111-130 mph (96-113 kt or 178-209 kph). Storm surge generally 9-12 ft above normal. Some structural damage to small residences and utility buildings with a minor amount of curtainwall failures. Damage to shrubbery and trees with foliage blown off trees and large trees blown down. Mobile homes and poorly constructed signs are destroyed. Low-lying escape routes are cut by rising water 3-5 hours before arrival of the hurricane center. Flooding near the coast destroys smaller structures with larger structures damaged by battering of floating debris. Terrain continuously lower than 5 ft above mean sea level may be flooded inland 8 miles (13 km) or more. Evacuation of low-lying residences with several blocks of the shoreline may be required.

Category Four Hurricane:

Winds 131-155 mph (114-135 kt or 210-249 kph). Storm surge generally 13-18 ft above normal. More extensive curtainwall failures with some complete roof structure failures on small residences. Shrubs, trees, and all signs are blown down. Complete destruction of mobile homes. Extensive damage to doors and windows. Low-lying escape routes may be cut by rising water 3-5 hours before arrival of the hurricane center. Major damage to lower floors of structures near the shore. Terrain lower than 10 ft above sea level may be flooded requiring massive evacuation of residential areas as far inland as 6 miles (10 km).

Category Five Hurricane:

Winds greater than 155 mph (135 kt or 249 kph). Storm surge generally greater than 18 ft above normal. Complete roof failure on many residences and industrial buildings. Some complete building failures with small utility buildings blown over or away. All shrubs, trees, and signs blown down. Complete destruction of mobile homes. Severe and extensive window and door damage. Low-lying escape routes are cut by rising water 3-5 hours before arrival of the hurricane center. Major damage to lower floors of all structures located less than 15 ft above sea level and within 500 yards of the shoreline. Massive evacuation of residential areas on low ground within 5-10 miles (8-16 km) of the shoreline may be required.

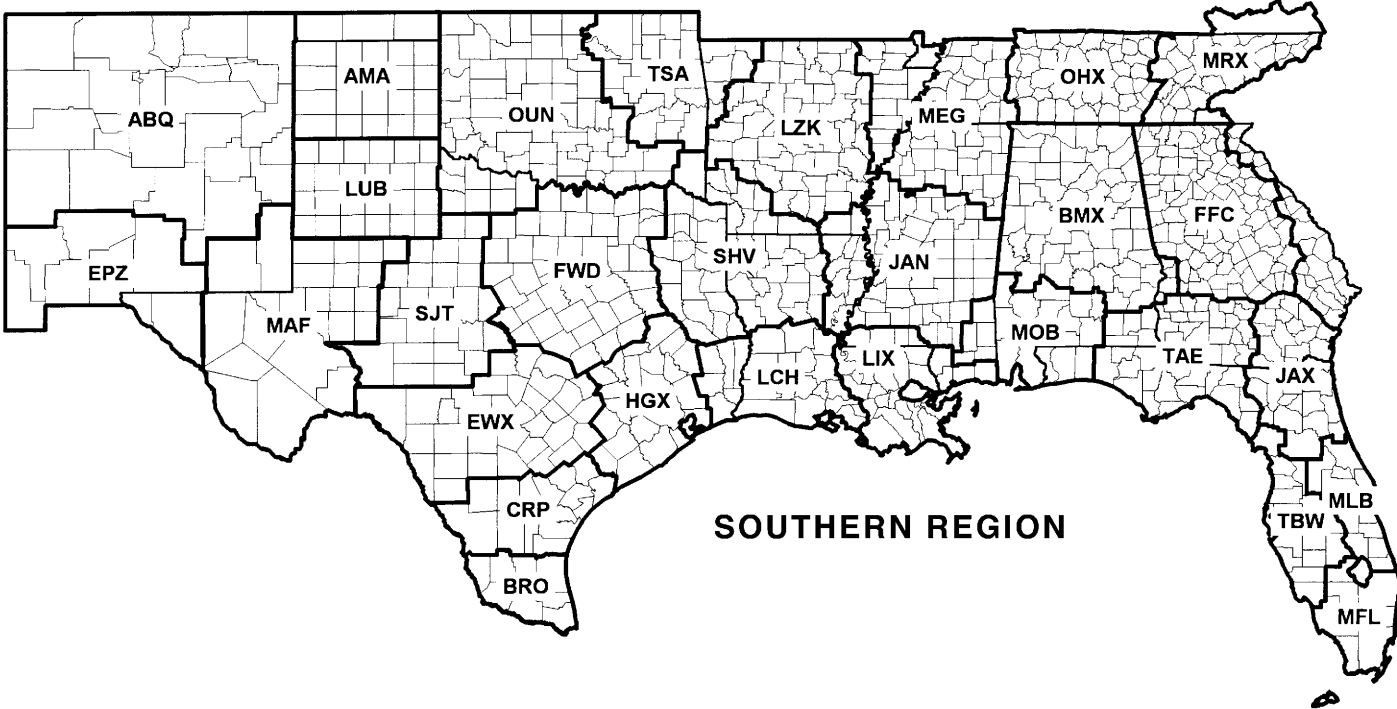
The Fujita Scale

F-Scale	Intensity	Wind Speed (mph)	Typical Damage
F0	Gale Tornado	40 - 72	Some damage to chimneys; breaks branches off trees; pushes over shallow-rooted trees; damages sign boards.
F1	Moderate	73 - 112	The lower limit is the beginning of hurricane wind speed; peels surface off roofs; mobile homes pushed off foundations or overturned; moving autos pushed off the roads; attached garages may be destroyed.
F2	Significant	113 - 157	Considerable damage. Roofs torn off frame houses; mobile homes demolished; boxcars pushed over; large trees snapped or uprooted; light object missiles generated.
F3	Severe	158 - 206	Roof and some walls torn off well constructed houses; trains overturned; most trees in fores uprooted
F4	Devastating	207 - 260	Well-constructed houses leveled; structures with weak foundations blown off some distance; cars thrown and large missiles generated.
F5	Incredible	261 - 318	Strong frame houses lifted off foundations and carried considerable distances to disintegrate; automobile sized missiles fly through the air in excess of 100 meters; trees debarked; steel re-inforced concrete structures badly damaged.
F6	Inconceivable	319 - 379	These winds are very unlikely. The small area of damage they might produce would probably not be recognizable along with the mess produced by F4 and F5 wind that would surround the F6 winds.

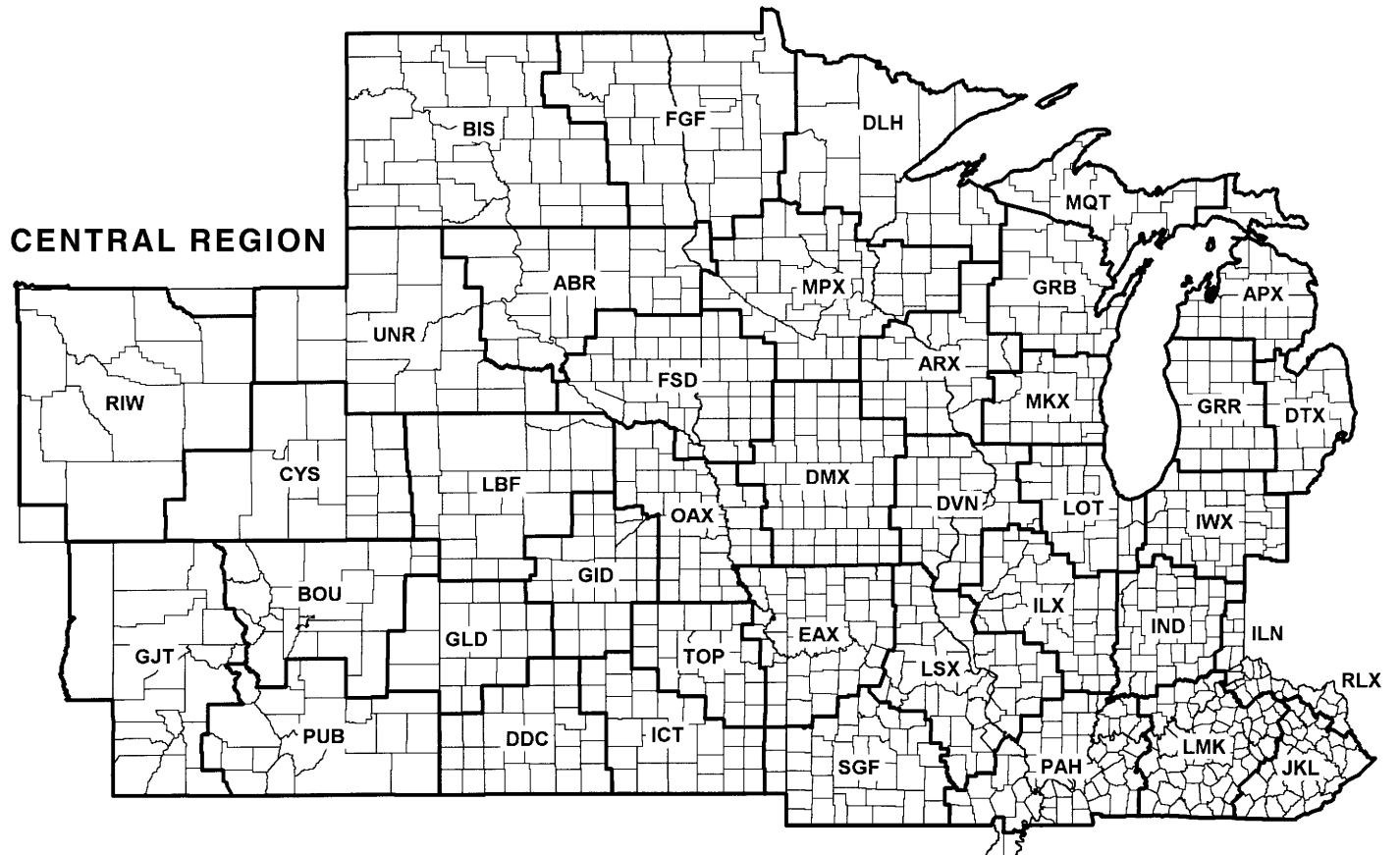
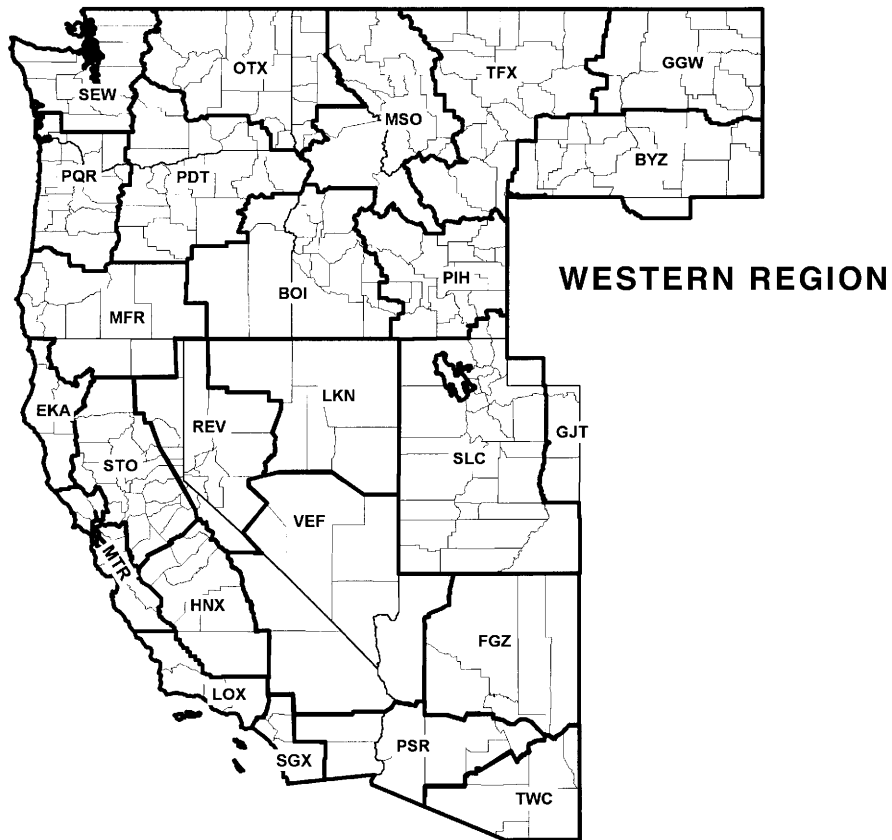


* From the Journal of Atmospheric Science, August 1981, p. 1517-1519

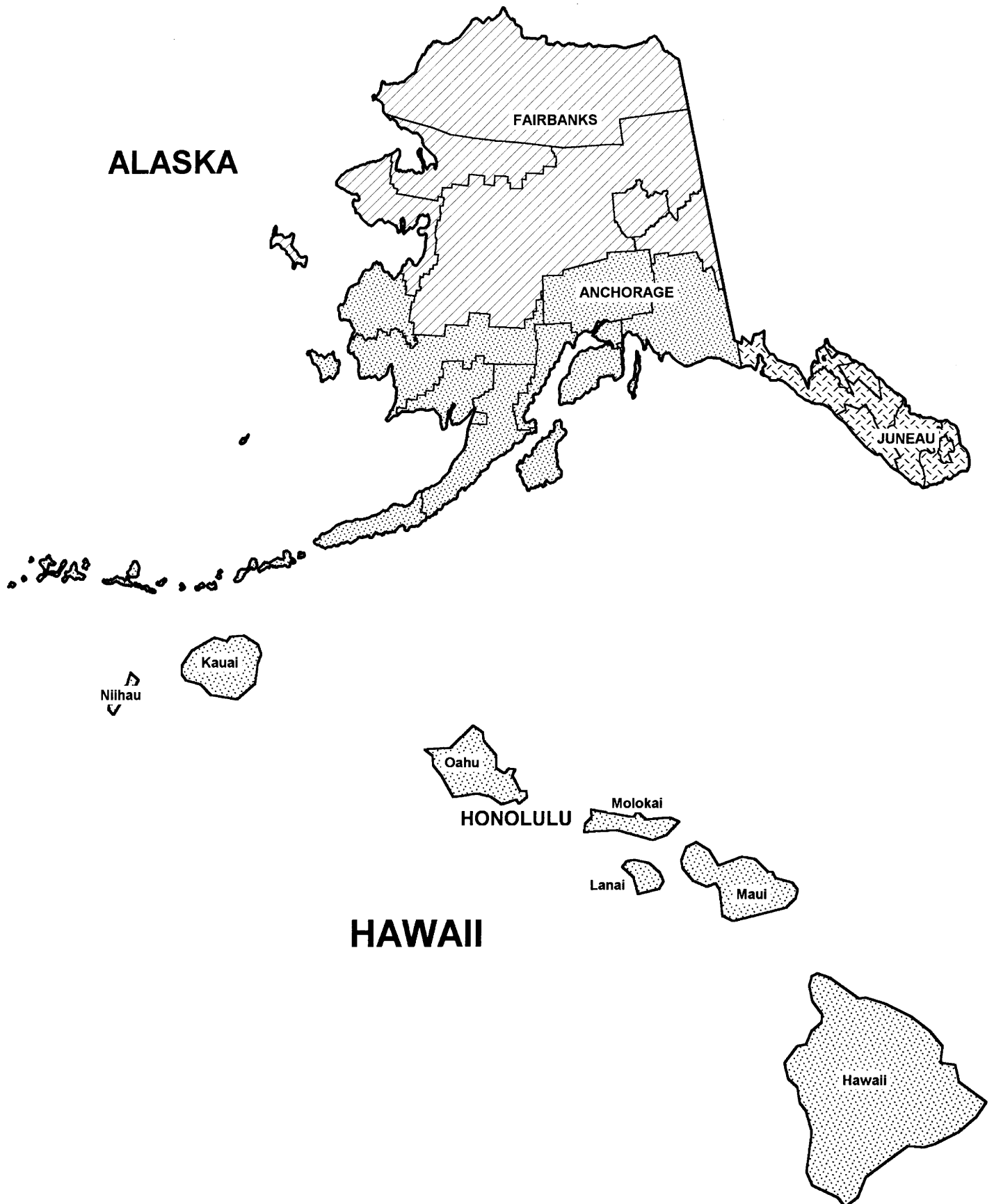
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COUNTY WARNING & FORECAST AREAS - MODERNIZED NWS



MODERNIZED COUNTY WARNING AREAS



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